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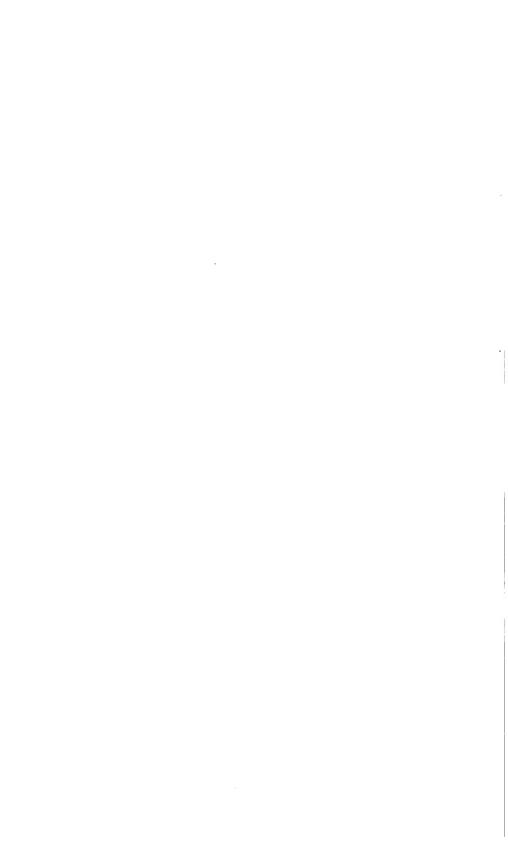
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PULP AND PAPER INVESTIGATION **HEARINGS**

R.S.

SELECT COMMITTEE OF HOUSE OF REPRESENTATIVES

JAMES R. MANN, Illinois, Chairman

JAMES M. MILLER, Kansas

HENRY T. BANNON, Ohio

WILLIAM H. STAFFORD, Wisconsin THETUS W. SIMS, Tennessee WILLIAM H. RYAN, New York

NO. 27

WASHINGTON GOVERNMENT PRINTING OFFICE 1908



PULP AND PAPER INVESTIGATION HEARINGS

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NO. 27

WASHINGTON
GOVERNMENT PRINTING OFFICE
1908

HD 9821

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WOOD PULP, PRINT PAPER, ETC.

W. H. Parsons & Co., Paper Manufacturers, New York, May 27, 1908.

Hon. James R. Mann.

Chairman Select Committee Pulp and Paper Investigation, Washington, D. C.

DEAR SIR: In compliance with your request, I beg to hand you herewith scale of wages paid by the Lisbon Falls Fibre Company and the Pejepscot Paper Company in the pulp and paper mills.

Scale of wages of Lisbon Falls Fibre Company and Pejepscot Paper Company

Yours, very truly,

D. S. Cowles. President.

pulp and paper mills. Second hands_____ Third hands______ Fourth hands Fifth hands Engineers' beaters_____ Assistant beaters_____ Steam engineers..... Assistant engineers_____ Finishers' helpers_____ Wood room_____ 1.60 Grinders and screens_____ Outside ______ Repair men_____ Machinists 2.25 Carpenters _____ Acid maker______

> FLAMBEAU PAPER COMPANY. Park Falls, Wis., May 27, 1908.

Hon. James R. Mann,

Washington, D. C.

DEAR SIR: In accordance with our promise we give you the follow-

ing additional information which you required:

First. Statement showing from whom purchased, the number of tons, and the cost of spruce and hemlock sulphite delivered at our mill for the years 1903, 1904, 1905, 1906, 1907, and 1908. Also a summary showing the average price of both kinds of sulphite, figured on a basis of the cost to us for the total amount used of each kind for these years.

1997

Second. Copy of proposition to us by Dean & Shibley, dated October 1, 1907.

Third. Copy of contract between Wisconsin Pulp Wood Company

and ourself, dated October 22, 1904.

Fourth. Our highest priced contract in force at the present time is a one-year contract calling for 100 tons of No. 1 sheet print at a price of \$2.65.

Yours, truly,

FLAMBEAU PAPER COMPANY. E. P. SHERRY, President.

Flambeau Paper Company—Cost of sulphite bought.

[Delivered at mill.]

[Denvirou at min.]			
	Tons.	Spruce.	Hemlock.
1908.		Per ton.	Per ton.
Burgess Sulphite Fiber Co., Berlin, N. H	137	\$38.00	
Do	94		
Do	39 11		\$37.00
Do	94		35.00
Sault Ste. Marie Pulp and Paper Co., Sault Ste. Marie, Ontario	18	38.00	
Do	75	36.00	
Do	176 73		
Interlake Pulp and Paper Co., Appleton, Wis. Hinckley Fiber Co., Hinckley, N. Y.	48	88.00	42.00
Riordan Paper Mills, Hawkesbury, Ontario	156	38.00	
Do	142	39.00	
Do	21	40.00	•••••
Total	1,084		
		,	
1904.			
Rhinelander Paper Co., Rhinelander, Wis	9		35.00
Riordan Paper Mills, Hawkesbury, Ontario	144 38	40.00	
Nekoosa Paper Co., Nekoosa, Wis Green Bay Pulp and Paper Co., Green Bay, Wis.	18	10.00	
Green Bay Pulp and Paper Co., Green Bay, Wis	11	37.00	
ро	9		85.00
Dells Pulp and Paper Co., Eau Claire, Wis	245 15	38.00	35.00
Hinckley Fiber Co., Hinckley, N. Y. Burgess Sulphite Fiber Co., Berlin, N. H.	518	37.00	
Interlake Pulp and Paper Co., Appleton, Wis	70	46.00	
Do	165	48.20	
Do	84 73	44.00	
ро		47.10	•••••
Total	1,399		
1906.			
	253	99 00	
Riordan Paper Mills, Hawkesbury, Ontario. Hinckley Fiber Co., Hinckley, N. Y. Interlake Pulp and Paper Co., Appleton, Wis.	26	38.00	
Interlake Pulp and Paper Co., Appleton, Wis	105	45, 20	
		47.10	
Rhinelander Paper Co., Rhinelander, Wis Dells Paper and Pulp Co., Eau Claire, Wis	247 248		35.00 34.00
Do	26		
Do	78	1	35.00
<u>D</u> o	273	36.00	¦
Do	120	37.00	
Total	1,519		
1906.			
	100	46.00	
Riordan Paper Mills, Hawkesbury, Ontario	108 60	40.00	l
Do	296	39.00	
Dells Paper and Pulp Co., Eau Claire, Wis	148		34.00
Do	31	' 	39.00
Interlake Paper and Pulp Co., Appleton, Wis	215 18	48.20 49.30	
Do	103		
Burgess Sulphite Fibre Co., Berlin, N. Y.	92	39.00	
Burgess Sulphité Fibre Co., Berlin, N. Y. Hinckley Fibre Co., Hinckley, N. Y. Do.	193	40.00	
Do	285 72	38.00 41.00	
20		71.00	
Total	1,621	i 	
		,====	

Flambeau Paper Company—Cost of sulphite bought—Continued.

	Tons.	Spruce.	Hemlock.
1907.			
	_	Per ton.	Per ton.
Port Edwards Fibre Co., Port Edwards, Wis	9 93		\$43.00
Do Riordan Paper Mills, Hawkesbury, Ontario	106	\$45.00	44.00
	94	48.00	
Do	21		39.00
Katahdin Paper Co., Claremont, N. H	14	50.00	:
Imperial Paper Mills, Sturgeon Falls, Ontario	11	48.00	
Rhinelander Paper Co., Rhinelander, Wis	21	ļ	43.00
Do	172 69	· · · · · · · · · · · · · · · · · · ·	42.00 44.00
Burgess Sulphite Fibre Co., Berlin, N. H	257	42.00	44.00
	185	47.00	
Do	60		40.00
Do	225		41.00
Do	24		45.00
Do	49 17	38.00	43.00
Do	240	41.00	
<i>Do.</i>			
Total	1,667		
1908.			l
Rhinelander Paper Co., Rhinelander, Wis	20		41.00
Hinckley Fibre Co., Hinckley, N. Y	67	44.00	<u></u>
Port Edwards Fibre Co., Port Edwards, Wis	.11		43.00
Do Dells Paper and Pulp Co., Eau Claire, Wis.	114 71		41.00 43.00
Detra Laper and Luip Co., Eau Claire, Wis			45.00
Total	283		l

RECAPITULATION.

Average cost delivered at mill for the amount of sulphite actually used by years.

	Spruce.	Hemlock.
	Per ton.	Per ton.
1908	\$37.35 40.77	\$87.99 85.00
1906	40. 13 40. 95	34. 49 34. 91
1907	48.84	41.99
1903 to date	44.00	41.76

DEAN & SHIBLEY, BANKERS AND BROKERS, New York, October 1, 1907.

FLAMBEAU PAPER COMPANY, Park Falls, Wis.

Dear Sirs: Referring to your contract with us, dated December 1, 1906, we have to report that pursuant to said contract and others of like character preliminary reports have been received from appraisers and accountants as to the valuations of real and personal property and as to the earnings of 21 paper mills, of which 19 have groundwood mills as a part of their plants and 7 have sulphite mills operated in connection with their plants; 1 ground-wood mill and 1 sulphite mill operated independently, all situated in the States of Wisconsin and Minnesota.

The aggregate daily capacity of the mills covered by these reports is approximately 831 tons of news-print, manila, fiber wrapping, and

kindred grades of paper, 469 tons of ground wood, and 283 tons of

sulphite.

We have determined not to make payment in cash for the property referred to in your said contract, but (in case the plan of organization herewith presented becomes effective) to cause said property to be transferred to a corporation to be organized under the laws of Wisconsin, or such other State as counsel shall advise, to be known as the "Northwestern Paper Company," or by some other appropriate title, which corporation shall be organized for the purpose, among others, of conducting and continuing the manufacture and sale of paper, ground wood, and sulphite.

The proposed corporation is hereby referred to as the "new company," and the plan of organization and capitalization of said new

company is as follows:

It is proposed that said company shall have an authorized capitalization of \$18,000,000, divided into shares of the par value of \$100 each, all of one class; and further, that said company shall authorize an issue of 5 per cent thirty-year sinking-fund mortgage bonds, limited to the aggregate amount of \$15,000,000, to be used only for the following purposes:

(a) To be issued in exchange for or to effect the retirement of exist-

ing mortgage liens upon the properties to be acquired.

(b) In part payment for such of the properties covered by the above-mentioned reports (exclusive of timber lands) as shall be brought within the plan or organization.

(c) To meet in whole or in part the cost of betterments or improvements to the properties so acquired and the purchase of addi-

tional properties.

(d) To be sold for cash to make payment of indebtedness assumed

in the acquisition of properties and to provide working capital.

The mortgage securing said bonds will make provision for a sinking fund to be maintained by annual payments of \$100,000 to be made by the new company, beginning after three years from the date of said mortgage, and will authorize the redemption of bonds thereby secured, if necessary for the purposes of the sinking fund, at the

price of 1021 and accrued interest.

The preliminary contracts which we have made contemplate the acquisition by the new company of about 73,000 acres of timber lands. It is proposed that all timber lands acquired by the new company shall be transferred to and held by a distinct corporation, hereinafter referred to as the "timber company," which shall be controlled by the new company through the ownership of capital stock, and that said timber company shall issue a series of sinking-fund bonds bearing interest at the rate of 5 per cent per annum, to be issued only for the acquisition of timber lands and to provide facilities for foresting such lands. The sinking fund for such bonds is to be based on stumpage and sale of lands.

In accordance with the terms of your said contract with us, in case said plan of organization become effective, we propose to make use of the following bonds and shares of stock in making payment to you of the purchase price payable by us thereunder, in addition to the assumption by the new company of liabilities reported by the accountants at the sum of \$----, viz, \$----- in said mortgage bonds

of the new company, \$---- in said mortgage bonds of the timber

company, \$ in stock of the new company.

Stock of the new company will be issued to you at par in lieu of the bonds of the timber company, if you so elect. The above amounts are subject to readjustment by reason of any change in the amount of liabilities to be assumed, or by reason of any variation appearing by the final inventory of quick assets.

The foregoing offer is based upon the appraised value and earning capacity of your property, ascertained in accordance with the terms of said contract. A like opportunity will be accorded to the owners of each of the other properties covered by the above-mentioned reports to participate in said plan of organization upon a correspond-

ing basis.

The plan of organization is to become effective in case the offers of purchase made pursuant thereto are accepted by persons or corporations owning or controlling plants for the manufacture of some one or more of the species of merchandise above mentioned, located in the States of Minnesota and Wisconsin, and covered by the abovementioned reports of appraisers and accountants, having an aggregate productive capacity of not less than 625 tons per day of news print, manila, fiber wrapping, and kindred grades of paper.

In the event that said plan of organization becomes effective, we

In the event that said plan of organization becomes effective, we offer to provide the new company with whatever cash may be required to pay liabilities assumed in the acquisition of properties and for working capital, not exceeding the aggregate amount of \$2,500,000, by purchasing the mortgage bonds of the new company at

par and accrued interest.

Inasmuch as the bonds of industrial corporations, under existing conditions, are marketable only to a limited extent, we advise the formation of a syndicate, in accordance with the terms of the contract, for the disposition of such of the bonds of the new company as the holders may desire to sell, with a view to the protection of the value of said bonds against the effect of injudicious and premature

sales and the ultimate realization of their full worth.

Subject to such arrangements for participation in said syndicate as you may make, the bonds and shares of stock deliverable to you in pursuance of the foregoing offer will be ready for delivery at the office of the Knickerbocker Trust Company, 66 Broadway, New York City, on January 2, 1908, at noon, upon receiving from you the deeds, assignments, bills of sale, and other instruments required by the terms of the contract. Drafts of the form of said deeds, assignments, bills of sale, and other instruments, together with the proposed proceedings of directors and stockholders in relation thereto, should be submitted to our counsel, Messrs. Davies, Stone & Auerbach, No. 34 Nassau street, New York City, on or before December 10, 1907.

Yours, respectfully,

DEAN & SHIBLEY.

This agreement between Wisconsin Pulp Wood Company, a Wisconsin corporation, hereinafter called first party, and the Flambeau Paper Company, a Wisconsin corporation, hereinafter called second party, witnesseth:

First. Said first party solicits and hereby accepts the position of purchasing agent for the second party for the purchase of pulp wood of all kinds required by second party, except such pulp wood as second party may secure and which

shall be floated the entire distance to its mill, and except such wood as shall be delivered to it by team, for and during the period of five (5) years from the date of this contract, and upon the conditions herein contained; and covenants and agrees with said second party that it will at all times, and in all respects, faithfully observe and comply with all the terms and conditions

and restrictions of said purchasing agency as herein prescribed.

Said first party further covenants and agrees with said second party that it will procure such pulp wood on the most advantageous terms that it is able to procure the same, either by purchase of the pulp wood cut and delivered to it or by contract with jobbers to cut and furnish pulp wood to it, or by purchase of pulp wood stumpage, and the cutting and delivering of the same. Said first party further covenants and agrees with said second party that it will, as early in each season as practicable, furnish said second party an estimate of the cost of such pulp wood, making a separate and independent estimate of the cost of each kind of wood per cord f. o. b. each shipping point. Such cost shall include the just share of salaries of officers, office expenses, interest on borrowed money, and other necessary business expenses of said first party incident to the purchase of said pulp wood, taking into account the entire amount of wood sold by said first party during the current season.

Second. Said second party accepts such agency of said first party on said Said second party further covenants and agrees to and with said first party that it (first party) shall be the sole purchasing agent of said second party for the purchase of all pulp wood it may require with the exception above And that it (second party) will not during said period of five (5) years from date of this contract, itself purchase, or cause to be purchased, any pulp wood it may require, except as herein stated, in any manner what-

ever, except by and through said first party.

Said second party further covenants and agrees to pay to the first party the price, fixed and estimated, as hereinbefore stated as the cost of such pulp wood, for each cord delivered to it, f. o. b. cars at shipping point in one week from date of invoice. But such pulp wood shall be deemed, in law and equity. the property of and in the possession of the first party until payment therefor.

In consideration of the services of said first party as purchasing agent, said second party agrees to pay to first party such rate per cord for wood bought for it, as will, on the same basis applied to other pulp wood purchased and delivered by said first party during the year, amount to six thousand dollars

(\$6,000) for its (first party's) commmission for the year.

In case of nonpayment of the purchase price thereof, said first party shall have the right to enter upon any of the premises of the second party, or any third party, and take therefrom any of said pulp wood, the purchase price of which has not been paid, according to terms of this agreement, and sell same, upon ten days' written notice, at public auction to the highest bidder, and on such sale to apply the purchase price thereof, less the expense of seizure and sale, to the payment of said delinquent price, and in such case shall turn over

to the second party the balance of such purchase price. if any there be.

Second party further agrees that on or before the first day of October of each year it will file with said first party a statement of the amount of pulp wood, and the kind of pulp wood, which it wishes to have purchased for it during the then coming season, under this contract, subject to a ten per cent (10%) increase or decrease before December first following, at the option of the purchaser. If the second party shall, during any year, wish to increase its order for pulp wood of any kind after December first, such order shall be received by the first party and shall be filled if practicable. But in case of shortage in any season's delivery, orders placed after December first shall not be filled until all orders placed before December first are filled. But if first party can not fill all orders of all its customers placed after December first it shall fill such orders pro rata.

First party shall not be liable for any damage on account of its failure through inability to supply the amount of pulp wood required by said second party, but it shall be the duty of said first party, and it so agrees with the second party, that it will in case of deficiency in supply of pulp wood, deliver pulp wood to each of its contractors pro rata according to their orders, that is to say, that it will deliver to each of its contractors such proportionate share of each kind of wood ordered by it, as the amount of that kind of wood ordered and delivered by it during said season, shall bear to the amount ordered by all

of its contractors.

If at the end of the pulp wood season, the said first party shall find that it is obliged to receive pulp wood in excess of the amount it has orders for, the said second party agrees that it will take its pro rata share of such excess.

At the end of each pulp wood season, the cost of the pulp wood delivered under this contract shall be ascertained in the manner hereinbefore provided, account being then taken of all sums paid for trespass or failure of title to wood, and if on such final accounting it shall appear that such first party has received more on account of such wood than is herein provided, its pro rata share of the surplus shall be refunded to said second party. If, on the other hand, upon the taking of such account, the price charged shall prove to be insufficient to cover the cost and six thousand dollars, as herein provided, then said second party agrees to pay the first party the amount of such deficiency, to the end that said first party shall have for its services and use of its capital for all is principals a net sum of six thousand dollars after paying all expenses as above and all

damages for trespass or failure of title.

In case of difference between the parties regarding the rights of either of them under this contract, either party may demand in writing of the other that such matter of difference, stating same, be submitted to arbitration. Within five (5) days of the giving of such notice each party shall select one arbitrator, and within five (5) days after notice to such arbitrators of their selection the two shall select a third arbitrator, or umpire, all to be disinterested parties. Within five (5) days after the selection of the third arbitrator or umpire the moving party shall make a statement, in writing, of its claim, and deliver a copy of the same to the opposite party and to the third arbitrator or umpire. Within five (5) days thereafter the opposite party shall make its statement, in writing, regarding such matter of difference, and deliver a copy of the same to the moving party and to the third arbitrator or umpire. Within five (5) days thereafter the moving party shall on two days' notice in writing to the opposite party make proof, if any it have, to make to sustain its claim to and before said arbitrators. Within five (5) days thereafter the opposite party shall upon two days' notice to the moving party, make its proofs, if any it have, regarding such claim, and within five (5) days thereafter both parties shall make such argument as they may have to make to the board of arbitrators. Thereafter, as soon as may be, but not later than ten (10) days, such arbitrators or a majority of them shall deliver to each party the conclusion of such board, in writing, signed by them or a majority of them, which conclusion shall bind both parties.

In witness whereof the parties hereto have executed this contract by their

presidents and secretaries on this 22d day of October, 1904.

WISCONSIN PULP WOOD COMPANY, By E. A. EDMONDS, President.

Countersigned:

By GEO. H. MEAD, Secretary. FLAMBEAU PAPER COMPANY, By Wm. P. HARPER, President.

By E. P. SHERRY, Secretary.

Countersigned:

In presence of-

M. H. BALLOU.

F. J. Sensenbrenner.

M. A. BATCHELOR.

CLOQUET, MINN., May 28, 1908.

Hon. James R. Mann,

Chairman, Washington, D. C.

DEAR SIR: I beg to hand you herewith, as requested by you when I was a witness before the Select Committee of the House of Representatives upon Paper and Pulp, true and correct copies of the original contracts made by the General Paper Company with the so-called "Scripps-McRae League" under date of May 9, 1905. These contracts are (1) the original "omnibus" contract, and (2)

the several contracts made between individual mill companies and individual publishers in connection with and pursuant to the omnibus contract.

In the omnibus contract Milton A. McRae and George G. Booth

represented the "league."

It will be observed that the onerous provisions of the contract now in force (dated January 24, 1908, and copies of which I delivered to the committee) had their origin in the attached contracts of May 9, 1905, and that the news-print mills which were members of the General Paper Company were the residuary legatees of those unwelcome burdens.

Among those inheritances were:

1. The acceptance and assumption of performance of the omnibus contract by the individual mill companies, which bound themselves, jointly and severally, as coobligors thereunder with the General Paper Company. See paragraph (C) in attached omnibus agreement.

2. The obligation to supply, in addition to the papers named in the contract, any other publications started or acquired by the promoters of the "league" prior to August 10, 1910. See paragraph

marked "(A)" of the omnibus agreement.

3. A joint liability to furnish a maximum of 125 tons of print paper per day. See paragraph (B) of the omnibus agreement.

4. The agreement to furnish paper for the unusual term of five

years from August 10, 1905.

5. The provision as to arbitration and price for the second half of the term, running from February 10, 1908, to August 10, 1910. See

paragraph (E) in the several contracts attached.

The saving clause (D) in the omnibus contract protected the mill companies as among themselves, and imposed upon each the duty of contributing to the requirements of paper under the Scripps-McRae contracts, in the proportion which the mill capacity of each company, at the time the contracts were entered into, bore to the total capacity of all of the mill companies.

Insistence by the Scripps-McRae League upon the advantages secured by the provisions above referred to compelled the mill companies to accept the unusual terms and conditions found in the contracts of January 24, 1908. Thus, paragraphs 1, 2, 3, 4, and 5 (on pages 3 to 5 of the omnibus contract of 1908) were required—

(a) To provide for the disposition of the excess of the maximum obligation of 125 tons per day (paragraph (B) of original omnibus contract) over the current requirements under the contracts then outstanding with the various newspaper publishers.

(b) To have some one in authority with whom the "league" could communicate—the General Paper Company and its executive officers

having been enjoined from further action.

(c) To distribute the requirements of the "league" among the various manufacturers so as to preserve their respective proportions of the obligation, as among themselves (paragraphs (A), (C), and (D) of the original omnibus contract).

(d) To provide for the enforcement as among themselves of the

rights of the several manufacturing companies.

The provisions of paragraphs 15 and 17 of the omnibus contract of 1908 were inserted to eliminate in toto the General Paper Company

in the future relations of the parties, and to annul effectually the contracts of 1905, leaving the rights of the parties after February 10,

1908, wholly dependent upon the new agreements.

The foregoing brief explanation will perhaps enable a readier understanding of the Scripps-McRae League contracts already submitted in evidence, and in connection with the contracts will effectually dispose of the charge appearing upon page 268, that the negotiations with the Scripps-McRae League were "in violation of the prohibition of the United States court," and constitute an unlawful combination of the manufacturers of news print who were former members of the General Paper Company.

Very respectfully, yours,

CLARENCE I. McNair.

Memorandum of agreement between The General Paper Company, a corporation under the laws of Wisconsin, party of the first part, and Milton A. McRae, of Cincinnati, Ohio, party of the second part, and George G. Booth, of Detroit, Michigan, party of the third part, made this 9th day of May, 1905.

Whereas the party of the first part enters into contracts bearing even date herewith to furnish news print for a period of five (5) years to the Post Pubnerewith to furnish news print for a period of five (5) years to the Post Publishing Company, of Cincinnati, Ohio; The Scripps Publishing Company, of Cleveland, Ohio; Evening Chronicle Publishing Company, of St. Louis, Mo.; The Scripps-McRae Publishing Company, of Covington, Ky.; The Toledo Newspaper Company, of Toledo, Ohio; The Citizen's Publishing Company, of Columbus, Ohio; The World Publishing Company, of Kansas City, Mo.; the Des Moines News Company, of Des Moines, Iowa; The Daily News Publishing Company, of St. Paul, Minn.; The Daily News Company, of Minneapolis, Minn.; the Star Publishing Company of Scattle Washington: the Spokane Newspaper Company of Scattle Washington: lishing Company, of Seattle, Washington; the Spokane Newspaper Company, of Spokane, Wash.; Record Publishing Company, of Los Angeles, Cal.; Daily News Publishing Company, of San Francisco, Cal.; Tacoma Times Publishing Company, of Tacoma, Wash.; W. H. Porterfield, publisher San Diegan Sun, of San Diego, Cal.; L. T. Atwood, agent for the Sacramento Star, of Sacramento, Cal.; The Evening News Association, of Detroit, Mich.: the Evening News, The Ibetroit Tribune and the Sunday News Tribune, The Evening Press Company, of Grand Rapids, Mich., and Bay City Times Company, of Bay City, Michigan; and, Whereas the covenants of the respective parties in each of the foregoing con-

tracts are part of the consideration for this contract;

Now, therefore, in consideration of the premises, one dollar in hand paid, and the covenants herein contained.

(A) It is mutually agreed between the parties that, in case the party of the second part, the party of the third part, or those associated with either of them as partner or stockholders in any of the foregoing companies, or any of such associates, acquire any other newspaper or newspapers, or legal control of such newspaper or the corporation owning the same, or starts any new newspapers between the date hereof and August 10th, 1910, the party of the first part will, on the order either of said party of the second or third part, supply news print equal to that contracted for in the foregoing contracts with the Post Publishing Company and others for such newspaper or newspapers during such part of said period as may be unexpired when such supply begins, and will enter into separate contracts therefor for each publication, similar in all respects to the contracts above recited between the party of the first part and various companies, reference being had in each case to the difference in location of the paper published and rates of freight thereto, which shall (B) be upon a corresponding basis; but the maximum amount of paper to be furnished by the party of the first part under all of the aforesaid contracts to furnish paper and under this contract combined shall not exceed in the aggregate one hundred and twenty-

five (125) tons per day (Sundays excluded).

The rights of the second and third parties hereto to be based on the present consumption of the Scripps-Booth Michigan papers, as compared with all the other papers above mentioned—each being entitled to their proportion of said one hundred and twenty-five (125) tons per day pro rata on such basis, except that the party of the third part shall be limited to papers in the State of

It is further agreed that in case the supply of news print is required for any publication in addition to those for which contracts have already been made, the party of the second part or the party of the third part, respectively, shall give reasonable notice of the increased requirement to the party of the first part.

The parties of the second part and the third part agree that the said newspaper corporations entering into contracts of even date herewith with the party of the first part aforesaid shall use not less than fifty (50) tons per day on the average (excluding Sundays) so long as all of said contracts are in force.

This contract to inure to the successors, legal representatives, and assigns

of the parties respectively.

The Kimberly & Clark Company, the Combined Locks Paper Company, The Consolidated Water Power and Paper Company, the John Edwards Manufacturing Company, Nekoosa Paper Company, Rhinelander Paper Company, Centralia Pulp and Water Power Company, Grand Rapids Pulp and Paper Company, Wisconsin River Paper and Pulp Company, Tomahawk Paper and Pulp Company, Dells Paper and Pulp Company, Hennepin Paper Company, Itasca Paper Company, Northwest Paper Company, Menasha Paper Company, and Flambeau Paper Company, accept this contract and agree to the full performance thereof, jointly and severally, with The General Paper Company.

In witness whereof the parties have hereunto affixed their signatures and

seals on the day and year first above written.

(Signed)

(Signed)
(Signed)

GENEBAL PAPER COMPANY, By JNO. A. DAVIS, Manager, MILTON A. MCRAE, GEORGE G. BOOTH.

(C) As provided therein and in consideration of the agreements contained in the foregoing contract on the part of Milton A. McRae and George G. Booth, and in further consideration of the benefits to accrue to the undersigned, as the manufacturers of paper to be supplied thereunder, the undersigned accept the foregoing contract, and jointly and severally agree with said Milton A. McRae and George R. Booth, and each of them, respectively, to perform all the obligations of the party of the first part as fully as if named as coobligors with The General Paper Company.

he G	eneral	Paper Company.	
(27	tons.)	•	DELLS PAPER AND PULP Co.,
•	•		W. L. DAVIS, President.
(25	tons.)		GRAND RAPIDS PULP AND PAPER Co
•	•		C. F. Kellogg, Vice-President.
(20	tons.)		ITASCA PAPEB Co.,
•			By A. C. Bossard, Treasurer and Manager.
(20	tons.)		HENNEPIN PAPER Co.,
			By B. F. Nelson, President.
(26	tons.)		TOMAHAWK PULP AND PAPER Co.,
			A. M. Pride.
(60	tons.)		Kimberly & Clark Co.,
			By F. J. Sensenbrenner, Vice-President.
(50	tons.)		COMBINED LOCKS PAPER Co.,
			J. S. VAN NORTWICK, Treasurer.
(55	tons.)		CONSOLIDATED WATER POWER AND PAPER Co.,
			GEO. W. MEAD, Secretary.
(40	tons.)		JOHN EDWARDS MFG. Co.,
			F. GARRISON, Secretary.
(23	tons.)		CENTRALIA PULP AND WATER POWER Co.,
			F. GARBISON, President.
(40	tons.)		RHINELANDER PAPER Co.,
			By E. A. Edmonds, Manager.
(18	tons.)		FLAMBEAU PAPER COMPANY,
	4 \$		By E. P. Sherry, Secretary.
(40	tons.)	-	MENASHA PAPER COMPANY,
		В	y M. H. Baum.

WISCONSIN RIVER PAPER AND PULP COMPANY. (40 tons.) C. A. BABCOCK, Secretary. (40 tons.) THE NEKOOSA PAPER COMPANY, T. E. NASH, President. NORTHWEST PAPER COMPANY, (20 tons.) C. I. McNAIR, General Manager.

(D) We accept the foregoing contract with the signatures now affixed thereto, it being understood that the contract is now operative as between the parties who have signed. If all the other companies named therein sign the same, we agree that the liability of each signer other than the General Paper Company shall be limited to its pro rata based on the proportion its present news-print capacity bears to the total present news-print capacity of all the signers, and provided that all of the said signers assent to this memorandum and state their present news-print capacity.

Chicago, May 12, 1905.

M. A. MCRAE. By J. C. HARPER. GEORGE G. BOOTH. By LEO M. BUTZEL.

Memorandum of agreement between the General Paper Company, a corporation under the laws of Wisconsin, party of the first part, and ----, a corporation under the laws of ----, publisher of the ----, party of the second part, made this 9th day of May, 1905.

I. The party of the first part, in consideration of one dollar, the receipt of which is hereby acknowledged, and the covenants herein contained, agrees to supply for the period beginning May 1st, 1905, and ending August 10th, 1910, paper known as news print sufficient for the publication of the ———.

II. Such news print shall be made at the mills of one or more of the guarantors of this agreement, and such news print shall be of a clear bright color, of a good surface, free from dust, opaque at the standard weight, being made, finished, and put up in accordance with the practices in the best news-print mills in the United States, and shall under any circumstances average and be equal in quality, character, and finish to that now furnished to and used by the Chicago Record-Herald and the Chicago Daily News on their regular issues. The weight to be on a basis of thirty-two (32) pounds per 500 sheets 24x36 inches. Production per 1,000 sheets on the above basis is guaranteed, exclusive of wrappers, and in case it overruns, the excess to be deducted from the bill, but the weight may, at the option of the party of the first part, be increased.

III. The party of the second part agrees to take from the party of the first part the full supply of news print of such grade consumed by said newspaper, and to pay therefor at the rate of one dollar and ninety-five cents (\$1.95) per hundred pounds, including wrappers, for a period beginning May 1st, 1905, and ending February 9th, 1908. Pink or green paper is to be furnished at fifteen (15) cents per hundred pounds advance. All payments to be made on the 10th of each month for paper delivered at the office of publication during the previous month in Chicago or New York exchange.

(E) IV. The price for the two and one-half years beginning February 10th, 1908, shall be agreed upon by the parties of the first and second parts six months prior to that date; and in the event that they are unable to agree, each party shall appoint a disinterested person as arbitrator, and the written decision of any two of the arbitrators shall be final and binding upon both parties, and such arbitrators, or the majority thereof, shall also determine in the same way by whom the expenses of such arbitration shall be borne; provided, that the of the second part shall not pay for paper furnished during the last half of this contract more at any time than is paid by the majority of the five largest consumers of news print in the United States under their contracts for news print, quality of paper and freight rates considered. Pending the determination of said arbitrators, said first party shall continue to deliver at the price named herein for the first period of this contract; the accounts covering the period between February 10th, 1908, and the date of the award between the parties hereto to be subsequently adjusted upon the basis of the price ultimately fixed by said arbitration and within ten days thereafter.

V. The party of the first part agrees to carry news print in storage at the point of delivery for two weeks' supply, of rolls of various widths in ratio to the average consumption required, and to deliver the same as called for on the sidewalk at the press room.

VI. In case of an unusual or extraordinary increase of demand for news print over and above the quantity being supplied at the time under the contract, reasonable notice thereof must be given party of the first part by party

of the second part.

VII. In case the party of the first part shall be unable at any time to furnish the paper required by this contract in consequence of fire, strikes, flood, war, or causes beyond the control of the manufacturer, the party of the first part shall give prompt notice to the purchaser, and the purchaser, upon receiving such notice, shall obtain the paper required elsewhere, and the party of the first part shall be liable only for the difference between the market price and the contract price for paper similar in grade to that contracted for during the period in which the manufacturer is prevented from furnishing such paper by the causes hereinbefore mentioned.

If the fire, strike, flood, war, or other cause beyond control, which hinders the performance of the contract, occur only at the mill supplying paper under this contract, and it is not a general condition of the trade, then the party of the second part may, unless otherwise supplied by party of the first part, obtain the paper elsewhere at the lowest price at which it can secure a sufficient supply to meet its publication requirements, and the party of the first part shall be bound to reimburse the party of the second part the difference between the price so paid and the contract price, for the quantity so procured.

VIII. The party of the first part agrees to purchase white waste from the purchaser at seventy-five cents (75¢) per hundred pounds, as it shall come from paper delivered under this contract and at the point of delivery, if properly packed by the purchaser, upon receipt of bill of lading by party of the first part, but no allowance shall be made for paper remaining on the cores. But paper shall be so made and wound on spools as to make it possible to use all of it.

IX. No claim for damaged paper shall be entertained by the party of the first part unless the purchaser states in his receipt for the goods that the same are damaged, and immediately advises the party of the first part to that effect. All such damaged paper shall be kept for disposal by the party of the first part.

X. The —— Paper Company accepts this contract and agrees to the full performance thereof jointly and severally with the General Paper Company. In witness whereof the parties have hereunto affixed their signatures and seals on the day first above mentioned.

DEPARTMENT OF COMMERCE AND LABOR,
BUREAU OF STATISTICS,
Washington, May 29, 1908.

Hon. James R. Mann,

Chairman Pulp and Paper Investigation Committee, House of Representatives, Washington, D. C.

Sin: Referring to our correspondence with respect to price of newsprint paper in foreign countries, etc., I inclose to you herewith copies of letter from the chief clerk of the Department of State and copies of communications transmitted by him from the American consulsgeneral at Ottawa, Canada, and Berlin, Germany, giving further information with respect to the matter in question.

Very truly yours,

J. N. WHITNEY, Acting Chief of Bureau.

DEPARTMENT OF STATE, Washington, May 27, 1908.

The CHIEF CLERK,

Department of Commerce and Labor.

SIR: By direction of the Secretary of State, referring to previous correspondence on the subject of price of news-print paper in for-eign countries, I have to inclose herewith copies of dispatches from the American consuls-general at Ottawa and Berlin, respectively, both dated the 13th instant, supplementing their telegrams previously transmitted to you.

I am, sir, your obedient servant,

W. F. CARR, Chief Clerk.

AMERICAN CONSULATE-GENERAL, Ottawa, Canada, May 13, 1908.

ASSISTANT SECRETARY OF STATE, Washington.

Sir: I regret that I have not thus far been able to furnish market

prices of news-print paper for the six years last past.

One of the leading mills of Canada has promised me this statement and has its bookkeepers at work preparing it. The statement will probably be ready to-night, and as soon as received I shall telegraph it to the Department.

No shipments of news-print paper intended for the United States have been certified at this consulate-general during the period named

prior to 1907.

The E. B. Eddy Company, at Hull, which has been in operation for

some years, does not self its product in the United States.

The J. R. Booth Company, which began operation in the early part of 1907, sells its output in the United States, and its shipments are certified at this office. At the beginning of the year 1907 this company had no contracts on hand, and in order to dispose of its output it probably sold at a price somewhat under what might be considered fair market value.

The manager of this company states that he considers that \$1.70 was about the fair market price in the early part of 1907, but that he was able to gradually advance the price during the year until in the autumn he obtained some large contracts at \$1.90 f. o. b. Ottawa.

During the present year comparatively few sales have been made.

The price, however, has thus far been held at \$1.90.

I have the honor to be, sir, your obedient servant,

JOHN G. FOSTER, Consul-General.

AMERICAN CONSULATE-GENERAL, Berlin, Germany, May 13, 1908.

ASSISTANT SECRETARY OF STATE, Washington.

Sir: I have the honor to acknowledge the receipt yesterday (May 12) of Department's cablegram reading:

Telegraph market price in Germany news-print paper now and annually for six years past. Carr.

And to confirm my reply to-day, as follows:

SECRETARY OF STATE, Washington.

Averaged price received from all sales in Germany by news-print paper manufacturers, delivery included, nineteen hundred two, 22.95 marks per one hundred kilograms; nineteen three, 21.50; nineteen four, 21.35; nineteen five, 22; nineteen six, 21.90; nineteen seven, 21.40; average nineteen eight competently estimated, 21.75. Berlin daily states its contracts for parallel years were 20.50, 20.50, 20.50, 21.25, 21.50, 21, 21.50. Cauldwell.

(22.95 marks per 100 kilos = \$0.024786 per pound; 22 marks per 100 kilos = \$0.02376 per pound; 21.90 marks per 100 kilos = \$0.023652; 21.75 marks per 100 kilos = \$0.02349 per pound; 21.50 marks per 100 kilos = \$0.02322 per pound; 21.40 marks per 100 kilos = \$0.023112 per pound; 21.35 marks per 100 kilos = \$0.023058 per pound; 21.25 marks per 100 kilos = \$0.02268 per pound; 20.50 marks per 100 kilos = \$0.02204 per pound.)

The weights and prices were not changed to equivalents in the United States because of the inconvenience that would result from

telegraphing the converted values.

The prices cabled are the average of all sales, both high and low, made in Germany during the years mentioned by the News-Print Paper Manufacturers' Association, which controls the German market. I was permitted to copy these rates from the private records of

the association's directorate under pledge of confidence.

While the prices given may not come under the strict interpretation of the term "market value," they represent the marketable value in Germany of the entire output of the association for the years mentioned. Because they were authoritative, and because they were definite, I considered these figures of greater value to the Department than those based on sales in open market, where prices varied according to the individual's capacity for bargain.

The smaller papers not in the combination pay a higher rate than the average quoted. I encountered prices of 23 marks and over per 100 kilos paid by papers which lacked facilities for buying to advantage. These sales represent so small a part of the total as not to reflect accurately the state of the German market during the past six

years.

I trust my course in this matter has the approval of the Department

The prices quoted in my cablegram were the average for sales in Germany only. It is interesting to note that export sales were made

at prices lower than those for Germany.

The association's total sales for the years mentioned, including export sales, were made at the following averages: 1902, 22.65 marks per 100 kilos = \$0.024462 per pound; 1903, 21.20 marks per 100 kilos = \$0.022896 per pound; 1904, 21.20 marks per 100 kilos = \$0.022896 per pound; 1905, 21.90 marks per 100 kilos = \$0.023652 per

pound; 1906, 21.80 marks per 100 kilos = \$0.023544 per pound; 1907,

21.20 marks per 100 kilos = \$0.022896 per pound.

These figures were given in confidence, and the publication of my source of information would cause serious embarrassment to the association's officials in Germany.

I have the honor to be, sir, your obedient servant,

Frederic W. Cauldwell, Vice and Deputy Consul-General.

W. H. Parsons & Co., Paper Manufacturers, New York, May 29, 1908.

Hon. JAMES R. MANN,

Chairman Select Committee of House of Representatives, Pulp and Paper Investigation, Washington, D. C.

My Dear Mr. Mann: On reading over the report of Mr. Chester W. Lyman's testimony, as shown on pages 1333, 1334, and 1335 of No. 19, I notice that Mr. Miller, of your committee, questioned Mr. Lyman respecting an address which I delivered on February 6 of this year at the time of the annual banquet of the American Paper and Pulp Association. Mr. Miller seems to have been under the impression that my address was delivered at the business meeting of the association, which is not the fact. In making the annual report of the association the compliment was paid me of reprinting my evening address at the banquet with the other papers that were read at the business meeting held in the forenoon of February 6. If you will take the trouble to read my address you will perceive that it is a discussion of a number of questions of general interest, and has no more special reference to the paper industry than it has to any other.

Very truly, yours,

D. S. Cowles.

New York and Pennsylvania Company,
Paper and Chemical Fiber,
New York, May 29, 1908.

Hon. James R. Mann,

House of Representatives, Washington, D. C.

SIR: I am sending you under separate cover report on the Pollution of Lake Champlain, by Marshall O. Leighton. That part which refers to our Champlain mill begins on page 21 and closes on page 48. My company has no connection with any other mill referred to in the report. Quoting from the last paragraph on page 47, Mr. Leighton states:

The evidence given on the previous pages is, in the opinion of the author, unquestionably sufficient to support the opinion that the pulp mill at Willsboro has not the slightest harmful effect upon the lake when it is operated in connection with the sedimentation bed.

I call your attention to an error I made in stating that Mr. M. O. Leighton was from the Agricultural Department; you will note at the time he made the report he was connected with the Department

of the Interior, United States Geological Survey. This report not only covers our method of taking care of wastes at Willsboro, but also gives a very good description of the soda process, and may be of interest to you on that account.

Respectfully, yours,

A. G. PANUFY, General Manager.

St. Regis Paper Company, Watertown, N. Y., May 30, 1908.

Hon. James R. Mann,

House of Representatives, Washington, D. C.

Dear Mr. Mann: In letter which I wrote you suggesting that the committee obtain costs from the Laurentide Pulp and Paper Company I find I made error in suggesting that the freight charge from Grand Mere to New York City is greater than from Watertown to New York. I find the rate of freight from Grand Mere, and also from Ottawa, on paper in carloads is 15 cents per hundred, the same as it has been from here. I referred particularly to the large eastern markets. On the other hand, some of my friends, whose opinions differ from mine to some extent, fail to see my point, although I

think it must have appealed to you.-

If I had known before that rate on paper from Grand Mere to New York was 15 cents I would have made a much more vigorous protest to the New York Central Railroad during the past few years than I did make. I have secured a reduction from this territory of 2 cents a hundred, making the rate 13 cents per hundred in the future, and while I had considerable help nevertheless I fought this battle, so far as this particular rate is concerned, singlehanded. Now, if the railroad people reduce the rate from Grand Mere to New York to 13 cents I shall make a pretty vigorous and, I think, winning fight for a rate on pulp wood from Grand Mere at less than 10 cents per hundred. So, as you will observe, in making the statement I did I did not care which way the fact developed. Either way, it made a satisfactory point.

I have rather openly declared for reciprocal arrangements with Canada, and if it is reciprocal in certain ways it must be made so with others, and I do not doubt but that the railroad people will join with us. Of course just how everybody would be affected you can judge now better than I. The sulphite industry is in a deplorable condition, and it should have some sort of relief, but as to ground wood and print paper reciprocal arrangements will be sufficient.

Yours, very truly,

G. C. SHERMAN.

St. Regis Paper Company, Watertown, N. Y., June 1, 1908.

Hon. James R. Mann,

Chairman, House of Representatives, Washington, D. C.

DEAR MR. MANN: I do not believe it is good judgment to deceive when it is easy to ascertain the truth, if I have no other principle.

I was ready to give up when I was informed positively that the rate of freight on news paper in carloads to New York from Grand

Mere was 15 cents per hundred. To-day I have been in conference with some of the freight experts of the New York Central Railroad and they assure me that I was right, excepting that a rate of 15 cents applies to shipments sent through the United States in bond for export. They are not able to inform me exactly what the rate from Grand Mere to New York is at the moment, for delivery and consumption in New York, but they think it is 19 cents.

I am somewhat pleased over learning this, because being assured I am immune from punishment, aside from perjury, I would be sorry

to lose my immunity on account of a loose statement.

Yours, respectfully,

G. C. SHERMAN, Treasurer.

International Paper Company, New York, June 1, 1908.

Hon. James R. Mann,

Chairman Select Committee on Paper and Pulp Investigation, House of Representatives, Washington, D. C.

DEAR SIR: I think an erroneous impression was gained by some of your committee as to the future possibilities of the development of the paper industry in this country, particularly the manufacture of news-print paper, which requires the use of water power.

You will find that some paper manufacturers who have not looked very deeply into the subject have an impression that there are no water powers remaining which are suitable for use in making ground wood. I consider that this is very erroneous. I have heard the same talk for at least fifteen years, and yet the industry has continued to grow at a rapid rate, the output of news-print paper certainly having doubled in that time.

I know of one or more undeveloped water powers on every important river in Maine and New York State, and some one testified at the hearing that the water-power resources of Wisconsin were not more than half developed. It is a fact also that there are a number of undeveloped powers in Minnesota; one on the Rainy River, for example, it is said can afford power for a mill of 500 tons capacity, and such a mill is contemplated. This and other projected mills will take care of the growth in the consumption of news-print paper for some years to come, and make it quite unnecessary to have paper brought in from Canada or Scandinavia. There are numerous other powers scattered in various States.

In addition to the undeveloped powers is the possibility of increasing the capacity of existing plants by means of water storage. There are few rivers on which news-paper mills are situated but what can have their capacity for producing pulp increased from 25 per cent to 50 per cent, so that so far as water power is concerned, I believe it will be many years before the industry will outgrow the resources of the

country.

The scarcity of wood is also, in my opinion, very much exaggerated. There are some sections of Maine which are not contributing anything at present to the pulp-wood supply, but will come into the field when economic conditions warrant. There is a large section of Minnesota which is as yet practically untouched. Besides these facts, the use of other kind of woods than spruce is increasing, as shown by the annual statements of the Forestry Service. On the Pacific coast there are vast tracts of wood suitable for pulp making, and I believe it is only a question of time when some of the Southern States will find that they have the resources, both in wood and power, for making a great output of paper, and that mills will grow up if the industry is protected.

The last publication of the Forestry Service shows that the consumption of pulp wood for 1907 in the United States exceeded that of 1906 by 300,000 cords. This certainly gives no indication of any inability on the part of the paper industry in this country to still further develop.

Very truly, yours,

CHESTER W. LYMAN. Assistant to President.

INTERNATIONAL PAPER COMPANY, New York, June 1, 1908.

Hon. James R. Mann,

Chairman Select Committee on Paper and Pulp Investigation, House of Representatives, Washington, D. C.

DEAR SIR: As I judge from your report that you intend to look further into the Canadian pulp-wood situation, I think you may be interested in the inclosed copy of a letter which was sent out by the paper association to a large number of daily newspapers last September in order that they might not heedlessly advocate some action by Congress which would not take into consideration the possibility of adverse action by Canada. At the time this letter was sent out I believe that neither the newspapers nor the American public had any knowledge of this subject.

I think you will agree with me that this letter should not be published, on account of its disclosing to Canadians facts which are not

generally known to them.

I take this opportunity of saying that we have been studying the pulp-wood question for a number of years and shall be glad to give your committee all the information in our possession.

Very truly, yours,

CHESTER W. LYMAN, Assistant to President.

AMERICAN PAPER AND PULP ASSOCIATION, New York, September 13, 1907.

TO THE EDITOR:

I beg to call your attention to the inclosed editorial in the New York Commercial relating to the persistent agitation in Canada, at present particularly aggressive, in favor of either the absolute prohibition of the export of pulp wood from that country into the United States or the imposition of a high export duty. For the furtherance of this plan its advocates are now conducting a vigorous campaign through the medium of the Canadian press.

This matter seriously affects the paper industry, and also concerns the prosperity of the printing and publishing interests of the United States. More than \$200,000,000 worth of paper is now annually manufactured and used in the United States, and we believe that the press and public can not look with indifference upon any movement which would be unfavorable to the welfare of our industry. For this reason we venture to lay before you confidentially the situation referred to in the inclosed editorial, in the hope that you will lend the influence of your columns to thwart this hostile Canadian scheme.

As to our need of Canadian wood, it would be extremely injudicious to make any public admission thereof, and we therefore ask that you treat what we say on this point strictly confidential. Suffice it to say that we are desirous above all things of keeping open this source of supply for such portion of our pulp wood as it is practicable and desirable to obtain from Canada, both in the interest of conserving our own forest and of securing our raw material at the lowest possible cost. There is no import duty on pulp wood coming into the United States. Accordingly our demand for Canadian pulp wood at present is determined largely by the geographical position of our various mills and the relative cost of carrying charges thereto from different pulp-wood producing localities both in Canada and the United States. If the capital and labor necessary to produce paper to meet the constantly and rapidly increasing demand in this country are to be furnished and employed here instead of in Canada,

this question will become of more and more importance.

There is no exceptional stress of conditions in Canada that would warrant a deliberate attempt to ruin an industry in a friendly country in order to build it up at home. In one breath the Canadians claim to have unlimited supplies of spruce timber-land suitable for pulp wood and appeal to the public to espouse the cause of building up home industries so as to use this material, and so as to supply the United States and the world at large with paper; and in the next breath they claim that the United States paper makers must be kept from depleting Canadian forests. As a matter of fact, the preservation of Canada's forests is a specious argument, as the effect thereon would be the same whether the pulp wood were manufactured into paper in the United States or in Canada, provided the quantity of paper remained the same. But if, as is likely, having shut us off from getting their wood, their production of paper failed to increase at a sufficient rate to offset the decrease in production in the United States and to meet our increased demand, a paper famine in the United States would inevitably result. The instigators of this movement, viz, Canadian paper makers, while making a false plea on broad patriotic grounds, are really actuated by selfish motives and hope to decrease the demand for wood in Canada so as to buy it more cheaply themselves, at the same time increasing the cost of wood in the United States, and thus to increase their profit in competition with us. Under these conditions, the removal of the United States' duty on paper would be only a play into their hands and would but add to the profit of the Canadian manufacturers without inuring to the benefit of consumers of paper here.

We maintain that any interference by Canada with the export of pulp wood would be an invidious act, inconsistent with the general policy of nations as well as of Canada itself, viz, the free exportation of all products, whether raw or manufactured. Many of us have invested large amounts in Canada in fees of timber-lands and licenses from various provincial governments, relying upon Canadian laws and conditions existing at the time. It would be practically confiscation for Canada largely to destroy the values of these properties by preventing the removal of the product from the country.

Canada is exporting many millions of dollars' worth of other raw materials and there would be no justice in singling out pulp wood to place a restriction upon its exportation. The only reason assignable is that the Canadians look with covetous eyes upon the industrial growth of the United States and think that in paper manufacturing they have found a vulnerable point at which to attack us, by reason of what they style our "dependence" upon them for the raw

material.

The United States in 1906 exported over \$500,000,000 worth of raw material and \$226,000,000 worth of partly manufactured goods. The United States is also exporting machinery to all parts of the globe to manufacture goods which compete with us in various markets. In fact, practically all the paper machinery and pulp machinery used in Canada is manufactured in the United States. In addition to this, Canada is largely dependent upon the United States for its supply of coal, iron, steel, and many other products both raw and manufactured.

It is thus seen that the proposed interference with the trade in pulp wood is inconsistent with Canada's own policy as well as with that of nations generally. If this principle were carried to its logical conclusion by both Canada and this country, it would result in the

former's ruin.

Such a step as is advocated, if taken, would involve discriminating legislation which it would seem should not be viewed with complacency by the United States. The Province of Ontario has already prohibited the export of pulp wood and logs cut from Crown lands. The Province of Quebec charges a greater stumpage if the pulp wood cut from Crown lands is exported, and the general tariff of Canada grants a preference of 33 per cent on all imports in favor of England as against the United States and other countries. It would seem that discrimination had already gone as far as we should allow

without protest.

The Canadians have so far been deterred from taking a more drastic course principally through fear of disastrous consequences to themselves by reason of the operation of the wise countervailing clause of our tariff, which would automatically raise the duties on Canadian pulp and paper coming into this country, to offset any duty which might be imposed on pulp wood; but this provision they are trying to find some way to avoid, and it is defective in that it would not, in fact, meet the situation if exports of pulp wood were entirely prohibited. They hesitate to resort to this extreme expedient through fear of some kind of retaliation by the United States, and we believe that a "quietus" could be put upon this agitation if the press of this country would give emphatic expression to the disfavor with which such an attack on one of our industries would be regarded by our people, and would intimate that it would be unwise for Canada to take a step which might provoke retaliatory measures and interfere at least with the commercial comity between the two countries.

Our object in addressing you is both to ask your support at this time in such manner as may seem to you to be most judicious, and also as a precautionary step to inform our leading newspapers as to the bearing of this matter, so that should it become a question of public policy in connection with reciprocity negotiations, tariff legislation, or otherwise they may be in possession of the principal facts. We shall be glad to furnish additional data on application.

Very truly, yours,

D. S. Cowles, President.

Manufacturers' Association of New York, Brooklyn, N. Y., June 9, 1908.

Hon. JAMES R. MANN,

Chairman Select Committee on Pulp and Paper Investigation, Washington, D. C.

DEAR SIR: I have read with care the report of Select Committee

on Pulp and Paper Investigation.

There is one feature which has a most important bearing upon this subject which has, I believe, been overlooked, and that is the great waste of paper and coincident waste of our forests due to the 1 cent per pound rate on publications entered in the post-office as second-class matter.

This low rate puts a premium upon large circulation and the forcing of circulation by methods not in harmony with the spirit of the law, and purely from a commercial standpoint has led to grave abuses and enormous national waste, which should be corrected, and I think that your committee should show the relation of this waste to the large and unnatural demand for paper and the consequent high prices.

This investigation might easily show that a law passed to encourage the dissemination of literature at a time when paper and printing cost ten times more than it costs to-day has resulted in a scramble by publishers to monopolize the field of advertising, and in doing so that they have also monopolized 90 per cent of the postal facilities without contributing anything like a reasonable share of the postal

revenue.

This investigation might legitimately show that the proportion of 600,000,000 pounds of matter of the second class, which is annually carried in the mails at 1 cent per pound, is very largely waste, pure and simple, and that it serves no useful purpose.

This investigation should show that 1,000,000 pounds of news paper requires the destruction of 3,000,000 pounds of forest, and that there is wasted every day in the year that amount of forest, due entirely

to this 1-cent-per-pound postal rate.

While it is no doubt the work of other committees of the House to investigate the needs of postal system in relation to its usefulness to the people and the value of an equitable postal rate law, nevertheless this committee has the opportunity to show that a great national waste is responsible for an abnormal demand for paper, which advances in an unnatural way the price and places a burden upon many who are unable to bear it.

The value of investigation and report by the Census Bureau upon this subject would be inestimable, for while our postal system is mak-

ing some headway, it has been made so clear in the reports of Postmasters-General that the Department is severely handicapped, that it is due to commerce and industry that these faults should be corrected and our postal system placed upon a basis which will provide

the best communication possible.

If your committee would show clearly, as it might, that the 1-cent rate for publications puts a premium upon the destruction of forests, and that there is a great national waste which is encouraged abnormally by present postal laws, Congress might be induced to enact an equitable postal rate law.

Respectfully, yours.

RICHARD W. BAINBRIDGE, Postal Chairman.

INTERNATIONAL PAPER COMPANY, New York, June 10, 1908.

Hon. James R. Mann, Chairman Select Committee on

Paper and Pulp Investigation, House of Representatives, Washington, D. C.

DEAR SIR: On page 1203 of the paper and pulp investigation hearings I make this statement:

But Mr. Norris and Mr. Ridder and Mr. Seitz, and one or two others, at different times have worked together to foment discontent among the publishers of this country.

Mr. Sims thereupon asks me if I refer to these gentlemen in their individual capacity, to which I reply affirmatively, saying that as I look upon it they are looking out for their own individual benefit. Mr. Sims states that Mr. Norris distinctly disclaimed representing the New York Times, etc.

Mr. Herman Ridder, under date of May 20, 1908, has sent out to a

select list of publishers a letter which I here quote:

DEAR SIB: It occurs to me that substantial steps toward protecting newspaper interests in the matter of paper supply and price could be obtained at this time, if a group of the larger newspapers should arrange to carry on that

work in their own interest.

Mr. John Norris has signified his willingness to serve such a group of newspapers and to devote all his energies and time to the work if an adequate salary could be assured to him for a period of two years. I am confident I can adjust that matter to the advantage of all concerned. Mr. Ochs, of the New York Times, and other publishers have already indicated their willingness to par-

ticipate.

The plan I have in mind contemplates a payment by each subscriber of 10 cents per ton of paper consumed with a minmum of \$1,000 per annum toward a fund which shall insure two years' work. If the total subscriptions exceed the expenditures, as I anticipate they may, a return will be made pro rata. I will act as treasurer in your interests. It will be understood that your obligation or liability will not in any way exceed the amount of your subscription. This plan does not contemplate any interference with your perfect freedom in buying paper, but rather the creation of conditions which shall be helpful to you in buying.

May I rely upon your cooperation, and if so, for what sum? Yours, faithfully,

HERMAN RIDDER.

This letter is not sent out as president of the American Newspaper Publishers' Association, but by Mr. Ridder individually. It is evident that in so far as this letter indicates, his solicitude for the publishers does not extend beyond a small circle, who would constitute strong allies for the accomplishment of his own object.

The letter also seems to discredit Mr. Norris's statement, according to Mr. Sims, that he did not represent the New York Times, as it shows that at present, at any rate, Mr. Ochs is behind Mr. Norris in his efforts to create conditions which will be helpful to the New York Times in buying its paper.

I would be glad to have this letter go in the record.

Very truly, yours,

CHESTER W. LYMAN, Assistant to President.

St. George Pulp and Paper Company, Norwalk, Conn., June 10, 1908.

Hon. James R. Mann,

Chairman Select Committee on

Pulp and Paper Investigation,
House of Representatives, Washington, D. C.

DEAR SIR: Inclosed please find our report as per your request of May 7. To compute these figures in the manner asked for, it has been necessary for us to separate to some extent items which have been lumped in our reports or taken collectively, but we have en-deavored to have them accurate, and the details agree with our

figures, so that we are very confident we are correct.

In considering our mill, kindly bear in mind that our situation is a little unique, in that while we are manufacturers of pulp and purchasers of pulp wood at times, our operations in pulp and pulp wood are all conducted on the Canadian side in the Province of New

Brunswick.

I am informed that your committee intends to visit some of the mills in the United States and Canada, and it affords me pleasure to

invite you to include our mill in your programme.

I should like to have the pleasure of giving any and all informa-tion in my power and would undertake to accompany you to our New Brunswick mill if you wished, in order to give you a better understanding of matters at that end of the line.

Wishing you every success in your endeavors to get at the true

facts, I remain Yours, truly,

St. George Pulp and Paper Company, E. G. MURPHY, Vice-President.

> DEPARTMENT OF STATE, Washington, June 11, 1908.

Hon. James R. Mann,

Chairman Select Committee on Pulp and Paper Investigation, House of Representatives.

Sir: I have the honor to inclose copy of a dispatch from the consul at Sheffield, England, transmitting a communication from a large paper manufacturer in his district, in regard to the amount and prices of paper shipped yearly from the United States to Sheffield.

I have the honor to be, sir, Your obedient servant.

ELIHU ROOT.

AMERICAN CONSULATE, Sheffield, England, May 26, 1908.

The Assistant Secretary of State,

Washington, D. C.

Sir: I have the honor to transmit herewith copy of a letter I

recently received, which speaks for itself.

The writer of this letter, Mr. Joseph Dixon, is the proprietor of large paper mills at Oughtibridge, near this city, and at Grimsby; he is known to me personally as a thoroughly reliable man, and upon receipt of the letter I had an interview with the writer, and pointed out that I could not use the letter as he suggested unless the ban of privacy was removed, and asked him if he was willing to be quoted in the matter. In reply he said he was willing to stand by what he had written. I then asked if the statements made by him were susceptible of proof; he said the yearly quantity stated was based upon his knowledge of the requirements of the purchasers here; the rail and ocean freights can be readily verified. The price per pound, Mr. Dixon says, was furnished him by the proprietors of two newspapers here, who are both customers of his for a part of their paper supply at a somewhat higher price than they are paying the American paper makers, but whether they would, if called upon, produce bills to prove his statement he was not prepared to say.

In view of the conflicting interests involved, I forward the letter

for such action as the circumstances may seem to warrant.

I have the honor to be, sir, Your obedient servant,

CHARLES N. DANIELS, Consul.

[Peter Dixon & Son, papermakers. West Marsh Paper Works, Grimsby. Head office, Spring Grove Mills.]

OUGHTIBRIDGE, NEAR SHEFFIELD, May 19, 1908.

DEAR MR. DANIELS: An inquiry is now being held in Washington on paper. The Government there is trying to find out if the American paper makers are selling cheaper to foreigners than to United States publishers. It might be useful to know if you were to tell your Government that 3,000 tons or more United States newspaper has come into Sheffield yearly for two or three years at 1½d. [2½ cents] per pound, less 14 per cent, equal to £10 [\$48.67] per ton [2,240] net in Sheffield. The carriage from Hull is 10s. 10d. [\$2.63] per ton and must be 15s. [\$3.65] sea freight, or, say, £8 14s. 2d. [\$42.38] f. o. b., and the price in New York is £10 5s. 6d. [\$50] or more.

Yours, very truly,

Jos. Dixon.

Note.—The conversions into United States currency, in brackets, have been added by me.

CHAS. N. DANIELS, Consul.

International Paper Company, New York, June 11, 1908.

Hon. James R. Mann,

Chairman Select Committee on Paper and Pulp Investigation, House of Representatives, Washington, D. C.

DEAR SIR: In the statement submitted by this company at the hearing we refer to the reputed enormous earnings upon the investments

of certain New York newspapers. We would like to add another paper as corroborative of our statements as to the relatively small amount of money necessary to provide the plant of a newspaper, com-

pared with the return upon the same.

We refer to the Indianapolis News. The net earnings shown by the sworn report of Hilton U. Brown, the receiver, for the operation of the paper for one year and eight days amounted to \$92,000. This is net, after having paid all expenses of the operation of the paper

and the expenses of the receivership.

The receiver took charge of the paper about eight years ago, being appointed on account of a disagreement between the partners relative to the management of the paper and not on account of financial difficulties. The earnings given above, I understand, were for the first year of the receivership. Since that time the News has doubled

its charge for advertisements.

One year their return for assessment for taxation was a little over \$47,000, and at that time they had a circulation of about 42,000, and it was said in the evidence that the earning capacity of the newspaper depended upon the circulation. It is now claimed in the statements they have published that they have a circulation of about 78,000 or 80,000, and it is estimated on reliable authority that the

present profits are not less than \$200,000 per annum.

An attempt was made by a dissatisfied taxpayer to have the assessment for taxes of the News raised, basing his claim on the ground that the paper had been sold by the receiver for \$936,000. In the tax proceedings the News publishers maintained that they were liable for assessment only upon their physical properties, and that the great value of the property was the "good will," which was not assessable, and the court upheld them in this position and refused to raise their assessment.

This gives an insight into the amount of capital in the publishing business represented by "good will," which in many instances means

a monopoly in the purveying of news.

Notwithstanding its enormously prosperous condition the Indianapolis News has taken the position that the duty on paper is iniquitous and the prices of paper extortionate.

Very truly, yours,

CHESTER W. LYMAN. Assistant to President.

AMERICAN NEWSPAPER PUBLISHERS' ASSOCIATION, New York, June 13, 1908.

Hon. James R. Mann,

House of Representatives, Washington, D. C.

DEAR MR. MANN: The inclosed preamble and resolutions of the American Newspaper Publishers' Association may interest you. Yours, truly,

John Norris, Chairman Committee on Paper. [The New York Times, Friday, June 12, 1908.]

John Norris has resigned his post as business manager of The New York Times to accept an appointment tendered him by the American Newspaper Publishers' Association for the promotion of the aims of the organization in the matter of news-print paper. The directors of the association adopted these resolutions yesterday:

"Whereas the recent Congressional investigation of the manufacture and distribution of paper surprised and startled publishers and paper makers by reason

of the extraordinary revelations in the marketing of paper; and

"Whereas the postponement by Congress of action upon the proposition to place pulp and printing paper upon the free list, and the decision of its select committee to continue the investigation until December next, thrust upon the American Newspaper Publishers' Association, and upon publishers generally, the necessity for continuing their efforts to safeguard and promote their interests; and

"Whereas Chairman Mann, of the select committee, has introduced in Congress a bill which indicates an inclination to ascertain the possibility of reci-

procity arrangements with Canada; and

"Whereas the paper makers are united and organized to protect their inter-

ests; and

"Whereas the information in the interest of paper makers which is being disseminated to justify the maintenance and increase of prices presents only

one side of the question; and

"Whereas, through the vigilance of this association, the pools controlling the output of fiber and manila paper boards are now under close judicial scrutiny, and it appears that other paper pools are likely to be subjected to the same scrutiny: and

"Whereas the efforts of this association to invoke Federal aid have already caused a repudiation of the proposed advance to \$60 per ton and an abandon-

ment of the \$50-per-ton price; and
"Whereas the paper makers have represented that the large advances in price for all kinds of paper had been forced upon them by reason of reductions in the hours of labor, due to changes from twelve-hour shifts to eight-hour shifts; and

"Whereas a recent canvass shows that only 29 out of 245 paper mills had

made such change; and

"Whereas the work thus far done in behalf of this association has been car-

ried on by volunteers; and

"Whereas the situation with respect to the expenditure by publishers of more than \$40,000,000 per annum for news-print paper has reached a stage where organized effort and concentrated energy on the part of the publishers seem essential to an earnest and aggressive campaign, looking to a broader market, a dissolution of paper makers' combinations, and the procuring of the proper representation of this association before committees of Congress and elsewhere; and

"Whereas the board of directors is of opinion that John Norris is equipped

to undertake these services for the association: Now, therefore, be it

"Resolved. That the president be authorized to engage the services of John Norris for a period of two years, upon terms to be agreed upon by them, for the promotion of the aims of the American Newspaper Publishers' Association in the matter of news-print paper."

> GRAND RAPIDS PULP AND PAPER COMPANY, Grand Rapids, Wis., June 15, 1908.

Mr. J. R. Mann,

Select Committee on Pulp and Paper Investigation, Washington, D. C.

DEAR SIR: In accordance with your request, we inclose herewith labor scale per hour for years 1904, 1905, 1906, and 1907.

Yours, truly,

GRAND RAPIDS PULP AND PAPER Co.

Wage scale per hour.

	1904.	1905.	1906.	1907.
Wood room:	Cents.	Centa.	Genta	Centa.
Foreman	174	174	164	224
Sawyer	161	16		17
Helpers	15	15		17
Grinder room:				
Foreman	'		25	25
Helpers	184	184	134	15
Wet machine room:	101	101	104	10
Tenders	141	141	141	101
Roll skinners			141	161
	10	101	124	124
Beater room:				
Beater foreman	187	18	184	23
Beater men	184	184	131	15
Sizeman	161	161	161	17
Hauling in raw material—			: 1	
Foreman	15	15	161	18
Helpers	15	15	16 1	17
Machine room:	1		١ ١	
Machine tenders	80	30	80	314
Back tenders	20	20	20	20
Third hands	121	121	124	15
Fourth hands		~	121	14
Oilers	104	104	121	124
Boss machine tender	TOE	705	108	87
Finishing room:		•••••		01
Cutter man	174	174	174	224
		171		
Tier man	174		171	20
Helpers	15	15	15	17
Shipping room:				
Foreman	184		16 to 28	20
Helpers	15	15	15	17
Boiler room:				
Engineers			201	281
Head fireman	141	141	174	184
Do	13	184	141	141
Coreman, oiler	164	161	174	19
Watchman	161	161	164	161
Millwright	82	824	821	82
Millwright helper		15	171	19
Carpenter	10	20	25	25
Machinist.	•••••	•••••	, ~ i	80
Teamster	174	174	174	17/

DEPARTMENT OF COMMERCE AND LABOR, BUREAU OF THE CENSUS, Washington, June 17, 1908.

Hon. James R. Mann,

Chairman Select Committee on Pulp and Paper Investigation, 1350 First National Bank Building, Chicago, Ill.

DEAR MR. MANN: As some time has now elapsed since we sent the reminder letter to the paper and pulp manufacturers and consumers of news-print paper, I think it well to tell you the situation of the work and receive further instructions.

Canvass of pulp and paper manufacturers.

Schedules mailed	931
Schedules received	172
Plants represented by schedules received	220

In addition to this number, 70 reports were received from manufacturers which stated that they were not engaged in the manufacture of wood pulp and paper. Some of these were included in the Census total for the industry, because the class of their products were so closely allied with the paper industry that it was thought proper to include them in the general group.

But very few schedules are now being received, and it is evident that the manufacturers do not intend to make complete reports. It is possible that another reminder would result in getting a few additional schedules, but I am satisfied that a thorough canvass can not be made unless agents are sent into the field to visit each plant and secure the desired data; therefore, under present methods, we can not hope to secure totals that are comparable with the census total for 1904. Please advise me if we should make further effort to secure the returns from manufacturers.

Canvass of consumers of news-print paper.

Schedules mailed6, 93	
Schedules received from the first call	4
	-

Total received to date______ 1, 822

Very few schedules are now being received, and I am afraid it will be impossible to secure reports from all of the establishments to which this schedule was sent, unless repeated reminder letters are mailed or special agents are employed. Please advise me if we shall make further effort to secure the reports for this branch of the investigation.

If no further effort is to be made to secure the returns for either branch of the investigation, can the tabulation be made, of course with arrangements to include returns that may reach the office during

the next three or four weeks?

Upon examining the testimony taken by the committee, I find considerable data which could possibly be collated and arranged so as to obtain averages and results that would strengthen the data secured by the use of the schedules that have been mailed to the manufacturers and consumers of paper. Do you care to have the office compile this data and present it, or at least the averages obtained from it, in connection with those we secured through the schedules?

Awaiting the receipt of your reply and further instructions, I am,

Very respectfully,

W. M. STEUART, Chief Statistician for Manufactures.

CHICAGO, July 14, 1908.

Mr. W. M. STEUART,

Chief Statistician for Manufactures,

Census Office, Washington, D. C.

DEAR MR. STEUART: I hope you will pardon my failure to give earlier reply to your letter of June 17. I think it would be well to send another reminder to the manufacturers and probably inclose another copy of the schedule. I hardly think it necessary to send another letter to the newspaper publishers. I wish very much that you would have some one go through the testimony taken by the special committee and work out any results that you can from that. There is much valuable information I think in the published hearings. I fear I will not have either the time or the proper training

to get the most available information out of the statistics, etc., furnished to us and published in the hearings. I will be greatly obliged to the Census Office if you can put some good person at work on this.

The principal object in asking newspaper publishers to fill out the schedules sent to them was to ascertain the prices at which paper had sold on different dates. While the great majority of the publishers seem not to have interest enough in the matter to reply, yet probably those who have been most affected by the increased price in paper have probably replied. In working up these schedules, I suggest that a distinction be made between the ordinary paper and trade and special publications. In other words, the schedules which have been returned will cover more kinds of paper than the simple ordinary common news-print paper, and unless the different grades of paper are kept separate as far as possible in the compilations the results will not be valuable. In addition to the schedules which were returned there is considerable information in the hearings from certain newspapers as to quantities and price which might be added to the schedules in compiling the results.

Yours, very sincerely,

Chairman Special Committee on

Pulp and Paper Investigation.

United States Department of Agriculture, Forest Service, Washington, June 27, 1908.

Hon. J. R. Mann, 1729 Q Street, Chicago, IU.

DEAR MR. MANN: When you were in my office just before Congress adjourned I promised to let you know what material the Forest Service could supply by next fall that would be helpful in your inquiry into the pulp and paper-making industry. The information which the Service can furnish will deal principally with the supply of pulp wood in the United States and Canada; also, to some extent, with the supply of other materials than wood which can probably be utilized for pulp making. The section of forests of the Commission on the Conservation of Natural Resources will, within the next few months, make the fullest possible investigation of the timber supply of the United States. In this investigation the supply of pulp wood will be thoroughly considered; data will also be collected upon the Canadian timber supply. A preliminary report will be made by the Commission not later than January 1.

Under the provisions of the special appropriation to allow the Secretary of Agriculture to "test such plants as may require tests to ascertain if they be suitable for making paper," the Bureau of Plant Industry and the Forest Service will cooperate in ascertaining the available supply of fibrous plants in the United States which give promise of being commercially suitable for paper making. So far as possible laboratory tests will also be made upon these plants to ascertain how the pulp produced from them compares in yield and quality with that produced from various kinds of wood. It is expected that the preliminary report of this study will also be made

not later than January 1.

You see, therefore, that we shall get considerable information that will have a direct bearing upon the problems which your committee has in hand. Some general conclusions can undoubtedly be drawn and made available for your use before Congress convenes.

Very sincerely, yours,

GIFFORD PINCHOT, Forester.

CHICAGO, July 14, 1908.

Hon. THEODORE ROOSEVELT,

President, Oyster Bay, N. Y.

DEAR MR. PRESIDENT: Before leaving Washington in June I called upon Mr. Pinchot, Forester, in behalf of the Special Committee on Pulp and Paper Investigation, and requested that the Forest Service make special investigation as to the quantity of spruce and other valuable forests suitable for pulp wood in this country and the same in Canada—in this country by States and localities, as far as possible, and in Canada by Provinces and localities. Also, as to the reproduction of spruce forests under natural conditions and the probable quantity of pulp wood which could be indefinitely cut from the spruce forests of the United States under proper forestry methods.

Mr. Pinchot expressed his great desire to serve the special committee in these regards and to obtain and furnish all the information possible. I think, however, it may be desirable, owing to your great interest in the matter, for you to give directions that the Forestry Service shall furnish to the special committee and the House any information relating to the subject under investigation which it is possible to obtain and furnish.

Yours, most truly,

James R. Mann, Chairman.

TREASURY DEPARTMENT, OFFICE OF THE SECRETARY, Washington, June 11, 1908.

Hon. James R. Mann, Chairman Committee on Pulp and Paper Investigation, House of Representatives.

Sir: Replying to your recent request that this Department obtain for the use of your committee certain information relative to importations of wood pulp, filter masse, printing paper, and pulp woods at the leading ports during the period from January 1, 1907, to June 1, 1908, I have the honor to transmit herewith, for your information, copy of a letter this day addressed to the collectors of customs at Bangor, Me.; Boston, Mass.; New York, Buffalo, Ogdensburg, Oswego, Cape Vincent, Plattsburg, Niagara Falls, N. Y.; Philadelphia, Erie, Pa.; Newport, Burlington, Vt.; Detroit, Port Huron, Marquette, Mich.; Baltimore, Md.; Bridgeport, New London, Conn.; New Orleans, La.; Milwaukee, Wis.; and the surveyors of customs at Dayton, Ohio, and Kansas City, Mo., asking for the statistics you desire.

Respectfully,

J. B. REYNOLDS. Assistant Secretary. TREASURY DEPARTMENT, OFFICE OF THE SECRETARY. Washington, June 11, 1908.

The Collector of Customs, Bangor, Me.

Sir: I have to request that you forward to the Department at your earliest convenience a tabulated statement, in duplicate, showing the date of arrival, quantity, appraised value, and country of origin of each importation at your port, together with the duties collected thereon, covering the period from January 1, 1907; to June 1, 1908, of the following:

1. Of the various kinds of wood pulp specified in paragraph 393

of the tariff act of July 24, 1897.

2. Filter masse or filter stock under paragraph 395.

3. Of the various classes of printing paper provided for under paragraph 396.

4. Pulp woods under paragraph 699.

Notations will be made of shipments on which aditional duties have been collected under the provisos to paragraphs 393 and 396, stating the amounts.

In preparing this tabulated statement, the name of the importer

need not be given.

Respectfully,

J. B. REYNOLDS, Assistant Secretary.

CHICAGO, July 14, 1908.

Hon. THEODORE ROOSEVELT, President, Oyster Bay, N. Y.

DEAR MR. PRESIDENT: Before leaving Washington in June I called upon the Treasury Department in behalf of the Special Committee on Pulp and Paper Investigation to obtain certain information relative to importations of wood pulp, printing paper, pulp wood, etc., and I am informed on June 11 a circular letter was sent out to various collectors of customs, asking for information in compliance with this request. While the Treasury Department has been very active and very courteous in obtaining and furnishing information to the special committee, I think possibly that, owing to your great interest in the subject under investigation, you may desire to direct the Treasury Department to furnish to the special committee every facility possible in the way of collecting information.

I beg to remain, Yours, very sincerely,

JAMES R. MANN, Chairman.

CHICAGO, July 14, 1908.

Hon. Theodore Roosevelt,

President, Oyster Bay, N. Y.

DEAR MR. PRESIDENT: Before leaving Washington in June I called upon Mr. O. P. Austin, Chief of the Bureau of Statistics in the Department of Commerce and Labor, and asked that Bureau to collect statistical information for the use of the Committee on Pulp

and Paper Investigation. Mr. Austin expressed his desire to furnish all the information possible, but there may be some expense in collecting a portion of the information desired and I think perhaps it would be well, owing to your great interest in the subject under investigation, to direct the Department of Commerce and Labor to obtain and furnish for the special committee any and all information which may relate to the subject which is asked for.

Yours, very truly,

JAMES R. MANN, Chairman.

Снісаво, July 15, 1908.

Hon. Theodore Roosevelt,

President, Oyster Bay, N. Y.

DEAR MR. PRESIDENT: During the work of the Special Committee on Pulp and Paper Investigation the Census Office has been very diligent in doing work for the committee. The committee now desires to have considerable work done in the Census Office which may involve some expense, and as you expressed your desire to furnish any facilities within your power to the committee I beg to ask that you will direct that the Census Office furnish to and for the benefit of the committee any means within its power.

I have the honor to remain,

Yours, most truly,

JAMES R. MANN, Chairman.

American Newspaper Publishers' Association, New York, July 13, 1908.

Hon. James R. Mann, Chicago, Ill.

DEAR SIR: Your consideration of the inclosed letter to the Presi-

dent about paper combinations is earnestly solicited.

The letter dwells upon three phases of the subject that seem to be pressing, viz, the immunity of individuals, the inadequacy of penalties, and the apparent hopelessness of relief through the courts.

Yours, truly,

John Norris, Chairman Committee on Paper.

A letter to the President about paper combinations.

AMERICAN NEWSPAPER PUBLISHERS ASSOCIATION, New York, June 29, 1908,

To the President:

May we invoke the aid of your powerful office in our effort to stop the oppressions of paper combinations? When the American Newspaper Publishers Association applied to Congress for relief, we were told that the courts would provide adequate and prompt remedy. Eight months ago we submitted to the Department of Justice all the material which we had, relating to seven groups of paper makers. The outcome of eight months' effort in that direction is insignificant. Twenty-four paper companies, acting together in the Fibre and Manila Association, added \$16 per ton to the price of fiber and manila paper on an annual output of 200,000 tons, in successive raises of \$5, \$2, \$2, \$3, and \$4, so that an average addition of \$10 per ton or \$2,000,000 per annum was imposed by that combination upon consumers. When they were subjected to inquisition by the Federal grand jury, the paper makers admitted that they

had placed their records beyond their reach, but subsequently all but two of the participants pleaded guilty. They were fined \$2,000 each, or \$48,000 in all. The maximum penalty is \$5,000 for each offense. Immunity was practically granted to every individual who participated in that pool—only one man, the treasurer, and originator of the pool, John H. Parks, now a fugitive in Europe, was included in the indictment. All the other defendants were corporations or partnerships. We maintain that such a finish to the procedure is a miscarriage of justice. When a fine of \$48,000 is imposed for an extortion of \$2.000,000 it places a premium upon lawlessness, and brings vividly to us a realization of the hopelessness of relief under methods that prevail, especially when the United States district attorney, while granting immunity to the individuals, urges leniency for the corporations which employ them. How different this case is from that of the ancient law, when the wrongdoer lost not only the property which he had wrongfully taken, or the value of that which he had destroyed, but also all the rest of his property was forfeited to the State. Here, a corporation breaks the law, and it secures immunity for the offending individual.

So far as we have been able to learn, no steps have been taken against the Box Board Pool, operated from the same office of John H. Parks, or against the Sulphite Pulp Association, whose by-laws and membership were submitted to the Department of Justice eight months ago, or against the other offenders. The operations of the Box Board Pool in twenty-six months included

invoices of \$32,000,000, with net profits of \$4,835,652 on 853,677 tons.

The counsel of the paper makers who pleaded guilty in New York on the 19th instant, stated that their output represented only 23 per cent of the total production of wrapping paper. The letters set forth in the indictment and the books and records now in the possession of the United States district attorney at New York, indicate (see folio 242 of indictment) that the Western Fibre and Manila Mills, which were under distinct prohibition against restriction of output, met in November, 1907, and decided to restrict production. We are confident those records will also disclose the methods by which the 23 per cent of indicted paper makers secured the cooperation of the other 77 per cent to maintain the extraordinary advances in price. One of the conspirators, the Petoskey Fibre Paper Company, which had been a member of the General Paper Company, and which had been enjoined by the United States court on June 18, 1906, from participation in such pools, failed to enter an appearance. It figured upon the records of the indicted association as "Charles Jones." Another of the conspirators, the Continental Paper Bag Company, is the exclusive selling agent for four mills of the International Paper Company, which have a capacity for 63,000 tons of manila paper per annum. The character of the criminality of that connection may be inferred from the fact that the name of the Continental Paper Bag Company was entered upon the books of the association as "John Smith," and letters pertaining to its business with the association were addressed to "John Smith, New York."

The hopelessness of our efforts for relief may be appreciated when it is

(a) That G. H. P. Gould appeared as an individual before the Mann committee on Saturday, May 16, 1908, and testified (p. 1011 of hearings) that he did not know of any agreement or understanding of any kind among the paper manufacturers or the selling agents to put a fixed or concerted price upon paper or to restrict the output. Yet on June 19, 1908, "the Gould Paper Company," the corporation of which H. P. Gould is president, pleaded guilty to the indictment charging the regulation of price and of output in restraint of trade for a period beginning September, 1906.

(b) Tom T. Waller, vice-president of International Paper Company, testified (see p. 1169 of hearings) on May 18, 1908, before the Mann committee, that the International Paper Company had not directly or indirectly, or through selling agents, participated in any pooling arrangement, and this statement applied to "any grade of paper." Yet on June 19, 1908, his company's exclusive selling agent, the Continental Paper Bag Company, pleaded guilty to the charges, and the indictment shows that the association voted (see folio 55 of indictment) to send its uniform price list to Mr. Sparks, of the Union Bag and Paper Company, and "one to Mr. Waller of the International Paper Company for their guidance."

(c) Officers operating Western Fibre and Manila Mills appeared before the Mann committee and testified that they knew of no arrangements for restricting output or fixing prices, yet they did meet. They did agree to close their

mills for a period. They did close their mills, and they did so in disregard of the prohibition of the United States court, dated June 18, 1906.

If such acts are to be tolerated, then the whole proceeding becomes a travesty upon government. May we ask what becomes of the consumer? What becomes of the other paper pools? How long must we wait before the newsprint paper user will obtain relief? Are prevarication and perjury and acts of contempt to go unpunished? Are the distinct prohibitions of the courts to

be ignored?

The Fibre and Manila Association, the Box Board Pool, and the Sulphite Pulp Association—each and all affect the news-print paper situation. When mills which can be changed to make news-print paper with slight cost are made excessively profitable in other directions by these pooling arrangements, then their equipment is kept out of news-print paper production and a news-print paper famine is promoted. Meanwhile the news-print paper companies are aiming to maintain what are believed to be "agreed prices," and are keeping their mills partially closed because the consumers will not buy more than a hand-to-mouth supply at the present high figures. Many of the mills are running part time and their labor is curtailed, while Canadian mills are filling orders that should be made in American mills. Canadian labor is employed while American mills are continuing a test of endurance with their customers. Not only are the paper makers keeping their own employees in idleness, but they are enforcing idleness upon thousands of workers in printing and publishing plants throughout the country. The testimony of the officers of allied printing trades unions upon that point is overwhelming. I send herewith a copy of the indictment.

In view of the seeming immunity of individuals, the inadequacy of penalties, and the apparent hopelessness of relief, does not this situation requre drastic treatment? May we not ask you to bring these lawbreakers to their senses, and to end a lawless condition which interferes with a return of prosperity? Yours, truly,

HERMAN RIDDER,
President American Newspaper Publishers' Association.

PULP AND PAPER INVESTIGATION **HEARINGS**

September 15, 16, and 17, 1908

SELECT COMMITTEE OF HOUSE OF REPRESENTATIVES

JAMES R. MANN, Illinois, Chairman

JAMES M. MILLER, Kansas

HENRY T. BANNON, Ohio

WILLIAM H. STAFFORD, Wisconsin THETUS W. SIMS, Tennessee

WILLIAM H. RYAN, New York

NO. 28

WASHINGTON GOVERNMENT PRINTING OFFICE 1908



WOOD PULP, PRINT PAPER, ETC.

SELECT COMMITTEE ON PULP AND PAPER INVESTIGATION, Tuesday, September 15, 1908.

On Tuesday, September 15, 1908, the committee visited and inspected 3 mills of the Kimberly-Clark Company, manufacturers of book and writing papers; the Bergstrom Paper Company, manufacturers of book, bond, and manila paper, and the Neenah Paper Company, manufacturers of writing paper, all at Neenah, Wis.

And also the mills of the Island Paper Company, manufacturers

of sulphite and wrapping paper, and the Gilbert Paper Company, manufacturers of writing paper, the two latter at Menasha, Wis.

The committee was called to order at 2 p. m. at the Hotel Menasha,

in Menasha, Wis., Hon. James R. Mann, presiding.

STATEMENT OF AUGUSTUS SPIES, PRESIDENT AND MANAGER OF MARINETTE AND MENOMINEE PAPER COMPANY.

The witness was duly sworn by the chairman.

The CHAIRMAN. Give us your full name.

Mr. Spies. Augustus Spies.

The CHAIRMAN. What mill are you connected with?

Mr. Spies. The Marinette and Menominee Paper Company.

The CHAIRMAN. What do you manufacture?

Mr. Spies. We manufacture pulp, sulphite, wrapping paper manila wrapping paper.

The CHAIRMAN. That is the only finished product that you have, manila wrapping paper?

Mr. Spies. Yes, sir.

The CHAIRMAN. And sulphite and ground pulp?

Mr. Spies. Sulphite and ground pulp. We also manufacture jute wrapping.

The CHAIRMAN. What is the capacity of your mill?

Mr. Spies. We have 3 mills. That depends on the grade of paper that we make, the weight of the paper. We do not run the same as on printing paper. On printing paper they run on a certain weight. We run say from a 20-pound weight up to 100. The amount of pounds would differ greatly. On 20 and 25 pound paper we can not manufacture near as much as we can on 60 and 50.

The CHAIRMAN. I suppose you have some basis upon which you

estimate the capacity of your mills.

Mr. Spies. Yes, we generally run about 3,000,000 pounds a month when we have plenty of water and everything in good running order.

The CHAIRMAN. What power do you have? Mr. Spies. Water and steam.

The CHAIRMAN. What proportion of water and what proportion of steam?

Mr. Spies. One mill has two engines and several boilers. We run the paper machine by steam in one mill, and also the Jordan.

The CHAIRMAN. Are you running full capacity now?

Mr. Spies. No.

The CHAIRMAN. Why not? Mr. Spies. We have no water.

The CHAIRMAN. What proportion of your full capacity are you running now?
Mr. Spies. We are likely running half.

The Chairman. Are you getting any water power at all?

Mr. Spies. Very little.

The CHAIRMAN. Are you grinding any now?

Mr. Spies. Very little. We are buying wood now and also sulphite. The Chairman. You are buying ground pulp now?

Mr. Spies. Ground pulp, yes.

The CHAIRMAN. Where do you buy from?

Mr. Spies. At present we are getting it from Cribitz. That is a little pulp mill. They grind only pulp there for market.

The CHAIRMAN. Can you tell us about how much wood you use in

the course of a year?

Mr. Spies. We shall use if we have a fair season the year around, if we do not have any drought and have plenty of water we can use from 30,000 to 36,000 cords.

The Chairman. Where do you get your wood from?

Mr. Spies. From our lands, principally from the lands of the stockholders.

The CHAIRMAN. Does the company itself own any timber land?

Mr. Spies. The paper company, well, not of any account. The CHAIRMAN. The stockholders do own timber land?

Mr. Spies. Yes.

The CHAIRMAN. Where are these lands?

Mr. Spies. In the upper peninsula of Michigan and northern part of Wisconsin. The lands are located mostly on the branches of the Menominee River.

The CHAIRMAN. Can you tell us in reference to the supply of timber up there that is available for the manufacture of wood pulp?

Mr. Spies. I can only tell you as far as we are concerned.

The CHAIRMAN. Have you had any trouble about getting plenty of pulp wood?

Mr. Spies. No.

The CHAIRMAN. Do you cut your own pulp wood?

Mr. Spies. We cut it on our lands principally.

The CHAIRMAN. That is, where the stockholders own lands does your paper company cut the wood?

Mr. Spies. No; they furnish the wood. We pay them for the pulp

They log at the same time.

The CHAIRMAN. Do they have sawmills up there?

Mr. Spies. Yes.

The CHAIRMAN. Do they use the logs for the sawmills?

· Mr. Spies. Yes.

The CHAIRMAN. And only the smaller part for the pulp wood? Mr. Spies. Practically. We are practically lumbermen.

The CHAIRMAN. The pulp wood is really a sort of a by-product only, then?

Mr. Spies. Yes; so far it has been. The Chairman. Is there plenty of forest up there?

Mr. Spies. Well, no; not plenty.

The CHAIRMAN. What do you use mostly, spruce or hemlock?

Mr. Spies. Hemlock mostly.

The CHAIRMAN. Is that cutting from hard-wood forests? Mr. Spies. It is mixed in with hard wood a good deal.

The CHAIRMAN. Do they do this logging mostly for the hard wood? Mr. Spies. Yes; now there is very little pine left. Most of these lands now they cut the pine years ago.

The CHAIRMAN. What are you paying for pulp wood now?

Mr. Spies. We are not buying any now. The CHAIRMAN. When did you buy any?

Mr. Spies. Our contracts were made about a year ago now, and they overstocked us. The panic struck us and our trade was small. We could not sell and the wood was sawed out because there wasn't much else to do in the woods. So we got out a surplus, and then the dry weather coming on later we still were handicapped about using up our wood, so we got a great surplus. I don't know hardly what to We are afraid the fire will burn it up. We have to have extra watchmen to watch it.

The CHAIRMAN. Wood piled up in your yards you mean?

Mr. Spies. Yes, in the yards and on the banks of the river. we have nearly enough for a year from now on.

The CHAIRMAN. You bought a large amount of wood at a very

high price?

Mr. Spies. The wood was contracted for at a very high price, yes, before the panic, and they would not let us off because they had a good thing.

The CHAIRMAN. Did you contract for two years' supply?

Mr. Spies. One year; but our mills did not run steadily in the winter. They run off and on on account of no orders, and the drought this summer hindered us again. We would like to run more but we couldn't. We hadn't water power. For grinding pulp we need considerable power.

The CHARMAN. I do not quite understand how, if you contracted at a high price for only one year's supply and did use some of it, you

still have a year's supply on hand.

Mr. Spies. We generally contract for more than we need, and in good times we just about get enough, but this time we got an overstock. They got in more than we wanted, and, of course, in order to be good to them, we took it.

The CHAIRMAN. Do you pay so much delivered?

Mr. Spies. No; we pay the freight there by rail. We also pay for driving it on the different streams. That is extra. That costs according to the amount of driving it takes. If the water is low it costs more.

The CHAIRMAN. On what basis do you make the contract; at what

price do you figure that the price attaches to the wood?

Mr. Spies. We usually make our contract according to the amount of driving there is. It ranges from—the driving may cost 50 cents, 75 cents, or \$1 or 10 shillings a cord—along there. According to

that, the contracts are made. It is the same by rail. Where the wood is farther off and costs more for freight the price is less at the point of loading.

The CHAIRMAN. Have you any other suggestion that you want to

make to the committee?

Mr. Spies. I do not know of any.

The CHAIRMAN. Do you have any fear about the future supply of wood?

Mr. Spies. Well, of course, we will surely be out of wood in due

time, and we figure on getting wood from Canada if we can.

The CHAIRMAN. Would it be, in your judgment, feasible to bring wood across Lake Superior?

Mr. Spies. I think so, yes.

The CHAIRMAN. If you could obtain the right to import it?

Mr. Spies. That would be our intention hereafter.

The CHAIRMAN. Of course, the regulations of the Ontario government now prohibit the exportation of pulp wood cut on the crown lands, as I understand it, which comprise, I guess, most of the available supply there. If you could obtain pulp wood from north of Lake Superior without any extra charge over that which is made against those who use it in Ontario, do you think you could compete with them on even terms?

Mr. Spies. I think so.

The CHAIRMAN. Without a tariff on pulp?

Mr. Spies. Yes.

The CHAIRMAN. Do you have any special knowledge at all in reference to the spruce forests in Ontario

Mr. Spies. Only what I read and hear from others.

The CHAIRMAN. You have a general understanding, I suppose, that

they have large forests?

Mr. Spies. Large forests, yes—endless. I have always had that idea from the time I went to school. When I went to school we had an idea of annexing Canada when we needed the wood. That was brought out right in Appleton; we had a discussion on that when I went to college. It was carried unanimously. I am a Lawrence student. I went to college here myself. Of course it was before these boys were born, likely. I think Canada will supply us with wood very shortly.

The Chairman. Supposing Canada should refuse to permit the

exportation of pulp wood to the United States or out of Canada?

Mr. Spies. They can not refuse it. The Chairman. They do refuse it now.

Mr. Spies. Well, they do now, but if Uncle Sam is willing to make

the right kind of a contract we think they will not.

The CHAIRMAN. Suppose that Canada should refuse to permit the exportation or should continue its present refusal to permit the exportation of pulp wood, what would in your judgment become of the

wood pulp business in Wisconsin?

Mr. Spies. I think where there is a will there is a way. I do not think there is any such thing as their refusing. I have no idea that they will refuse. Where there is a will there is a way, and the American people will have it. They have got such an immense supply of it they would be glad to realize on it and let us have the wood.

The CHAIRMAN. What I want to get at is whether, in your opinion, there is wood supply enough in the Northwest to continue to furnish pulp wood to the wood pulp mills of Wisconsin.

Mr. Spies. You mean in Canada? The Chairman. In the United States. Mr. Spies. Only in the United States?

The CHAIRMAN. Yes.

Mr. Spies. We are limited in the United States, of course.

The CHAIRMAN. Do you know anything at all about the spruce

forests of the far west in the United States?

Mr. Spies. Well, there are immense spruce forests, but I think the large bulk of it belongs to Canada; and the experience is, as far as Oregon and Washington are concerned, there is likely to be more of it burned than will ever be used. That is the experience we had up north here. A good deal of our wood burned. Since I have been in Menominee there have been millions and millions of it burned.

The CHAIRMAN. It is your opinion, then, that as far as the cost of labor is concerned, the cost of machinery, and other costs of operation, you could compete on even terms with any wood-pulp mills that may be established in Ontario if you can get your pulp wood on

even terms from Canada?

Mr. Spies. I do.

The CHAIRMAN. If that pulp wood were brought from the north side of Lake Superior would it be feasible to bring it over by boat or rafts?

Mr. Spies. Either way. It might be brought in on rafts. A much more feasible way now would be car ferry. That is the latest and the quickest and most feasible way. We buy 10,000 tons of coal annually for drying the paper, and we have deep water, and we don't even use the vessels to bring our coal. We bring it all by car ferry, because it is cheaper. Car ferry is the cheapest.

The CHAIRMAN. Where do you get your coal from?

Mr. Spies. We get it from Ohio or from Pittsburg. We use Pittsburg No. 8, get it from Pennsylvania.

The CHAIRMAN. Have they any car-ferry lines from Ohio to

Menominee?

Mr. Spies. No, not all the way, but we have it across Lake Michigan. They don't break bulk. The reason it is cheaper for us, the carloads of coal are emptied directly into our fire hole. We have no handling whatever. If we get it by vessel we have to rehandle it and that rehandling and unloading and reloading and switching would cost us more than it costs now. So I think the pulp wood will likely be brought that way. Anyway, we should have it that way if we went into Canada. We wouldn't think of bringing it any other way. Our car ferry runs from Frankfort over to Menominee.

STATEMENT OF NATHANIEL M. JONES, OF BANGOR, ME.

The CHAIRMAN. Will you give your name?

Mr. Jones. Nathaniel M. Jones.

The CHAIRMAN. You are a resident of Maine, I believe?

Mr. Jones. Yes; Bangor.

The CHAIRMAN. State senator there?

Mr. Jones. Yes. The mills are at Lincoln.

The CHAIRMAN. You happened to be here on business?

Mr. Jones. Yes, sir.

The CHAIRMAN. I understand you have paper mills, sulphite-mill interests, and considerable knowledge on the subject of the timber supply, and we would be glad to have you give us such information as you can on the subject.

Mr. Jones. I have a great deal of data on that subject, Mr. Chair-

man, but it is all at home. I regret I haven't it here.

The CHAIRMAN. I appreciate the fact that you were not expecting

Mr. Jones. What lines would you like?

The CHAIRMAN. I would like to have especially the question of the supply of pulp wood from the present available timber of the United States, in connection with the proposition as to the necessity of the use by the American mills of Canadian pulp wood.

Mr. Jones. My opinion of the matter is that the pulp and paper interests, together with the lumber interests, are consuming our forests faster than they are reproducing themselves; and we are experiencing a greater loss of timber by the lumber interests than by the pulp interests. The pulp interests, as I remember the figures, have consumed about 4 to 5 per cent of the forests cut, and about 50 per cent of the 5 per cent that they are using is of a class of timber that is unfit for lumber purposes or timber purposes. So that the decrease in our forest supply is not wholly due to the use of the timber by the pulp mills, as a good many people seem to think. Of course, in Maine we have a very bountiful supply of wood. On the Penobscot River we have not cut our timber as small as they have on most other rivers, some even in Maine. Our regulation cut there is fourteen inches at the stump, which is a fairly good-sized log.

The CHARMAN. That is on the land that is controlled by your com-

pany?

Mr. Jones. And others. The parties who own the timber lands in Maine will not permit timber to be cut on their lands except under that regulation.

The CHAIRMAN. You mean that is the general custom in Maine

now ?

Mr. Jones. The general custom of the timber land owners. We cut from our own lands about 50 per cent of our consumption, and the balance we cut from lands that we obtain permits from their owners for cutting, and that is the regulation in all the permits that we have. I own some lands now which I permit to others, and we insist on that regulation also.

The CHAIRMAN. Can you tell how long after cutting from the lands under such regulations it is until it can be profitably cut over

again under the same regulations?

Mr. Jones. It is estimated about fifteen years. For instance, I happened to be on some land a short time ago that was operated on about twelve years ago, and right alongside of a stump that had been cut was a tree—within five or six feet of it. The man who was with me happened to be the man who operated on that land twelve years The tree growing by the side of that stump was larger than the one that had been cut. He had left it ten or twelve years before because it was too small. At this time it is amply large to be cut. We got some small wood, a very limited quantity, that is cut by farmers in clearing their land, but that is so small a quantity that it is hardly worth considering.

The CHAIRMAN. Is it the general custom in Maine, now, where the timber is, to practice what they call the conservation of forests?

Mr. Jones. Yes.

The CHAIRMAN. Not to cut clean?

Mr. Jones. Not to cut clean. That method is practiced by the International Paper Company, the Great Northern Paper Company, and, in fact, all others. The owners of the land who permit for an income adopted that rule.

The CHAIRMAN. Do you think with that practice that there is a sufficient quantity of forest in Maine to probably meet the demand of

the Maine mills for pulp wood?

Mr. Jones. Well, yes, and no. In our particular section there is. On the Androscoggin River, which the International Paper Company and the Berlin Mills Company have mills on, I doubt if they would have an unlimited supply of wood. The Berlin Mills Company are cutting under the forest regulations, but they are using the bulk of their cut for the lumber business and exporting from Canada the smaller wood for their pulp business. Should they abandon the lumber business, I think perhaps their supply would last for a great many years. They are very large owners of timber lands.

The CHAIRMAN. What is pulp wood worth with you now?

Mr. Jones. The price is based somewhat upon the size of the logs. As an illustration, a lumberman makes a cut of five or six million feet. In cutting his logs he has two marks for his cut. All his logs that are 10 inches and up at what we call the "top end" of the log he puts under one mark. His smaller logs, running from, say 7 up to the 10inch size, he puts on another mark. His largest mark he sells to the sawmill operator for an average, I should judge, of about \$18 or \$19 a thousand feet. His smaller logs he sells to either pulp mills or boxboard mills at prices varying from \$13 to \$15 or \$16 a thousand. We cut our own logs. They vary in cost and are liable to run from \$15 to \$18 or \$19, according to the size of the logs, and so forth. We are not operating very largely in connection with the lumber business, which we have abandoned this year, and perhaps it leaves us with a higher grade of logs than we otherwise would have.

The CHAIRMAN. What is the name of your company?

Mr. Jones. Katahdin Pulp and Paper Company.

The CHAIRMAN. You manufacture what? Mr. Jones. Sulphite pulp and paper.

The CHAIRMAN. What is the capacity of your mill?

Mr. Jones Forty tons daily.

The CHAIRMAN. What is sulphite worth now? I do not mean what are you willing to sell it for to some of these gentlemen. claim to make a superior quality of sulphite, as I understand.

Mr. Jones. We try to make a high grade, yes, sir.

The CHAIRMAN. What is about the price of sulphite now?

Mr. Jones. I do not object to giving my price, because we only have one. Our price of sulphite to-day is \$2.10, delivered in Maine.

The CHAIRMAN. F. o. b. you mean?

Mr. Jones. No, sir; delivered at the paper mills. Two dollars and twenty cents for New England and the West.

The CHAIRMAN. Delivered?

Mr. Jones. Yes, sir.

The CHAIRMAN. You pay the freight?

Mr. Jones. We pay the freight, yes, sir; \$2.25 we get in some cases

where we have a very high freight rate to encounter.

The CHAIRMAN. What would you say as to the condition which you would be in if the tariff were taken off of wood pulp, so that you would compete on even terms with Canadian wood pulp, and at the same time there was no export charge or regulation of the exportation of pulp wood from Canada?

Mr. Jones. Well, unless we could obtain a higher figure for sulphite

than to-day's prices, we should undoubtedly go out of business.

The Chairman. Why would you want a higher figure than to-day's prices; how would that affect the question?

Mr. Jones. Perhaps I misunderstood your question.

The CHAIRMAN. What would be the effect if the tariff were taken off entirely from wood pulp?

Mr. Jones. I see now what you mean. The CHAIRMAN. With free pulp wood.

Mr. Jones. I will answer it in this way: That should a corresponding reduction be made in the selling price equivalent to the duty, we should have to go out of business; and there undoubtedly would be, unless we could make it up in some other way, which I do not know of at the present time.

The CHAIRMAN. Do you estimate that it costs you very much more to manufacture wood pulp than it does the Canadian manufacturers,

or have you gone into that?

Mr. Jones. I should say, yes, sir; it would. Of course, raw material is the principal factor. The Canadian wood does come cheaper to the mill. Their labor is somewhat less than ours. I do not see why they should not make it for less.

The Chairman. Can you see where we have forests enough in the United States to furnish the pulp-wood supply of the future without

drawing on Canada?

Mr. Jones. You mean considering also the demand for lumber?

The CHAIRMAN. Certainly.

Mr. Jones. I do not think we have; no, sir. For all time.

The CHAIRMAN. The Province of Ontario now prohibits the exportation of pulp wood cut on the crown lands. Newfoundland does the same thing, I believe. The Province of Quebec makes a higher charge for wood cut on the crown lands that is to be exported. That being the case and the tendency in Canada in that direction, what would be your judgment as to the desirability of the people of the United States making some effort to get an opportunity at least to buy pulp wood in Canada without paying any excessive price for it over what it costs the local consumer? In other words, if we are going to be brought to the point where we have to have Canadian wood pulp, with a threat that the Canadian government may prevent it, as we now stand, what are we going to do about it?

Mr. Jones. I am giving my personal views in the matter, and I do not think there is much danger of Canada putting on any export duty beyond what they already have in Ontario. My idea of handling the situation is this, that it should be handled with Canada by treaty. Not as a tariff arrangement subject to the Republicans doing one thing this year and the Democrats doing something else next year. I should say to Canada, "If you care to make a reciprocity proposition of this, we are willing to try that; we will admit your ground wood pulp free; we will make a reasonable discount or rebate on the duty on sulphite." I do not think the paper market ought to be disturbed. That would settle the matter with Canada, perhaps. Now, on the tariff proposition, on the importation of pulps and papers from Europe, barring, perhaps, some special papers which we do not care to manufacture in this country, and perhaps can not, I should increase the duty 100 per cent on all European pulp coming into this country, and I should let Canada in free to the extent that I have stated.

The CHAIRMAN. Why would you increase the duty on importations

from Europe?

Mr. Jones. Because Europe is the greatest competitor that this

country or Canada has to-day in the pulp business.

The CHAIRMAN. Isn't it true that Great Britain is getting to be largely dependent upon Canada for its wood pulp and pulp-wood supply?
Mr. Jones. No, sir.

The CHAIRMAN. Where do they get most of their wood pulp? Mr. Jones. Entirely from the Continent. I do not believe there has been 1,000 tons of sulphite pulp sent to England from Canada in the past year or year and a half.
The CHAIRMAN. How about ground pulp?

Mr. Jones. Ground pulp—they get more or less of that from Canada—I think more from Newfoundland to England; but so far as the paper and sulphite end of it is concerned, they are not dependent upon Canada or this country at all. They can buy it cheaper from Europe than they can from us or Canada.

The CHAIRMAN. Don't they ship any paper from Canada to Eng-

land?

Mr. Jones. I think a very little.

The CHAIRMAN. Where do they get their wood pulp from in England?

Mr. Jones. From the Continent; Norway and Sweden generally. The CHAIRMAN. Have you gone into that question at all yourself?

Mr. Jones. Yes, sir; quite a good deal.

The CHAIRMAN. Do they get much of it from Germany? Mr. Jones. Not of the ground wood. They get sulphite from

Germany. The ground wood they get largely from Scandinavia. The CHAIRMAN. Do you think there is any danger of competition

in this country with Scandinavian ground wood or sulphite?

Mr. Jones. Not so much from the ground wood as from the sulphite. The sulphite is what will disturb us most. On ground wood I do not think the competition would injure us much.

The CHAIRMAN. Why should the competition on sulphite be injuri-

ous to the United States.

Mr. Jones. Because they produce it in such quantities that they use us for a dumping ground. If you don't mind, I can give you some figures on that.

The CHAIRMAN. We would be very glad to have them. I have had the Bureau of Statistics in Washington for a number of months working on that subject for me, endeavoring to get all the available

published statistics, which are not in very satisfactory shape.

Mr. Jones. I think that the figures that we have here have been worked out through the bureau of statistics which the sulphite manufacturers maintain.

The Chairman. Sulphite manufacturers in this country, do you mean?

Mr. Jones. Yes, sir; purely a bureau of statistics. We have no combination.

The CHAIRMAN. I understand it.

Mr. Jones. The total amount of sulphite imported from Europe to the ports of New York, Boston, Philadelphia, and Baltimore from January 1 to August 1 this year was 27,966 tons, practically 28,000 tons. From Canada, 11,254 tons only. I want to say right here that there is one mill in Canada which does not report to our bureau, but the amount shipped in by them is not very large.

The CHAIRMAN. Where are those figures obtained from, from the mills or from the customs officers, or from the importers themselves?

Mr. Jones. These importations from Europe are taken from the United States Government figures—that is, from the customs in each one of these ports—every manufacture.

The CHAIRMAN. I was under the impression that they did not keep

them separate except by price values.

Mr. Jones. Not only price values, but there is a differentiation in the duty.

The CHAIRMAN. Based on price?

Mr. Jones. No, sir; the duty on unbleached—these figures are on unbleached sulphite.

The CHAIRMAN. There is no differentiation in the tariff between

sulphite and soda, for instance?

Mr. Jones. No, sir; there has been no soda imported into this

The CHAIRMAN. How do you know?

Mr. Jones. I know from various sources. There is no importer that has brought any soda in. None of the mills have been using the product.

The CHAIRMAN. No soda fiber imported, then, at all?

Mr. Jones. No, sir. There is a very small quantity of sulphate

The CHAIRMAN. Is there a difference between sulphate fiber and

sulphite fiber?

Mr. Jones. A slight difference; not much, so that it is immaterial. The unbleached sulphate takes the place in paper making of sulphite.

The CHAIRMAN. Of course, the tariff description is chemical pulp.

Mr. Jones. Yes, sir.

The CHAIRMAN. So that all the chemical pulp that is imported

practically is sulphite fiber.

Mr. Jones. Sulphite fiber; yes, sir—that is, a very small amount of the sulphate. Then it comes in as bleached and unbleached. These figures that I am giving you are unbleached. I have given you as the importations from Europe and Canada practically 39,230 tons. Now, all the mills reporting to our bureau have sold in the American market since the 1st day of January but 33,672 tons, as against 39,000 tons from Europe and Canada.

The CHAIRMAN. That would seem to indicate a shortage in the American market of sulphite.

Mr. Jones. Apparently, yes; on the face of it. But our mills have

been operated on a 43 per cent basis since the 1st of January.

The CHAIRMAN. Why is it profitable to operate mills on a 43 per cent basis, instead of selling the sulphite that the paper manufacturers want, made here, and not in Scandinavia?

Mr. Jones. You mean that it might be well, perhaps, to run our

mills at a loss so as to supply the demand?

The CHAIRMAN. I think it would be well to run your mills full instead of only 43 per cent, and let somebody else furnish the stuff.

Mr. Jones. We are unable to do it.

The CHAIRMAN. Unable or unwilling?
Mr. Jones. Well, both. The amount of pulp imported this year to August 1 over 1907 was about 4,000 tons; that is, 4,000 tons more this

year than last year, 4,266 tons.

The CHAIRMAN. I suppose you base the figure upon which you estimate you can make sulphite at a profit largely upon the cost of pulp wood to you, or upon the actual figure you pay for pulp wood where you buy?

Mr. Jones. Yes, sir.

The CHAIRMAN. There has been, as I understand it, a considerable enhancement of price in pulp wood in the United States in the last couple of years. Pulp wood that you own you charge upon your books at the present market price, I suppose?

Mr. Jones. What it actually cost at the mills.

The CHAIRMAN. Of course, if you own the timber, you can not figure on what it actually costs you. There is no way of telling what it costs. You own a large share of your forest supply yourself, you say?

Mr. Jones. Yes, sir.

The CHAIRMAN. Where you cut that pulp wood how do you charge

your mills with it?

Mr. Jones. We charge, for instance, if we are owners of this town and you of that, and we are cutting 2,000,000 to 3,000,000 logs from your town and are paying you \$2.50 per thousand feet for the privilege, or for the stumpage, as we call it, and we take 2,000,000 feet from your town, we charge to the actual cost of the wood \$2.50 for the value of the wood on the stump.

The CHAIRMAN. You charge the paper mills with the market price

of the pulp wood that you cut from your own forests?

Mr. Jones. Yes, sir.

The CHAIRMAN. That market price has been considerably enhanced in the last year or so. The great majority of the wood-pulp manufacturers and the paper manufacturers, I presume, do not own extended forests; they are buyers of wood pulp. If we should come in open competition with Canada upon even terms, it would have a tendency to depreciate the value of the pulp wood in the United States, wouldn't it, and reduce the cost of your sulphite and wood pulp on your books?

Mr. Jones. Yes; it would surely have to come from somewhere—

wood or labor.

The CHAIRMAN. Would you think it advisable, then, for our Government to enter into relations with the Canadian government by

which there might be free trade between the two countries on paper pulp and pulp wood and leave the duty on paper and sulphite, etc.,

coming from other countries?

Mr. Jones. Yes, sir; but I do not think from my talks with some of the authorities in Canada that such an arrangement could be made unless Canada could have a greater protection from the importation of sulphite fiber than they are having to-day in this country.

The CHAIRMAN. What do you mean by greater protection? Mr. Jones. Canada would insist, as I feel that we should, that the duty on sulphite imported from Europe should be at least 100 per cent greater than to-day.

The CHAIRMAN. Do you think there is any hope of increasing the

tariff duty on sulphite?

Mr. Jones. There ought not to be any difficulty about it.

The CHAIRMAN. If I was in the insurance business I would be

willing to write insurance very cheaply on that subject.

Mr. Jones. I do not think that you can to-day make a treaty with the Canadian government for free pulp into this country as against free wood, without more protection on their sulphite.

The CHAIRMAN. Of course, as to what we can do, we do not undertake to determine. What I am trying to ascertain is that which we

would like to do if we could.

Mr. Jones. Yes, sir. I had a little more here that I would like to give you if you do not mind my taking the time.

The CHAIRMAN. We would be glad to have you give us any infor-

mation you can.

Mr. Jones. I have a short paragraph I want to read you from the World's Paper Trade Review. This article is written by R. J. Dorenfeldt, civil engineer. I have a personal acquaintance with this gentleman, and he is a man that is authority on pulp and paper in Europe and is quite well known in this country. I have met him both here and on the other side.

Mr. Jones read the following from the World's Paper Trade Review, of London, of date February 28, 1908:

In the course of his remarks, Mr. Dorenfeldt said: "The aggregate annual production of sulphite cellulose in Europe will, from the end of this year or the beginning of yext year, be about 1,600,000 tons, of which about 950,000 tons fall to the part of Scandinavia and the Russian and German Baltic provinces. There has lately been a very rapid increase in the output of sulphite cellulose in all the countries which border on the Baltic, and this development will probably continue in the coming years. For in those countries, where the rivers flow to the Baltic, there is a better supply of the raw material for making cellulose, the white pine (picea excelsa) than in the rest of Europe. case, there is, because of the sparsity of the population, a far greater surplus for sale, and because the cellulose industry allows of the most efficient utilization of small and medium-sized logs, the building of new and the extension of old sulphite mills in the countries round the Baltic will most probably proceed in the future even more rapidly than in the past. To this result the circum-stance will also contribute that increasing obstacles are placed in the way of sulphite mills in Germany on account of their pollution of the rivers. It must also be borne in mind that the increasing competition enforces such an increase of the size of the mills, that clear-sighted manufacturers find it necessary to build their mills by the sea, in order to be as much as possible independent both as to the supply of raw materials and the sale of the cellulose. That Norway and the Baltic countries—Sweden, Finland, Russia, and Germany, so far as Stettin-will continue the same increase of the production as in the last three to four years, say, an average of 100,000 tons cellulose annually, I feel therefore tolerably convinced.'

The CHAIRMAN. You say there is 950,000 tons of sulphite manufactured in Scandinavia a vear?

Mr. Jones. Yes, sir.

The CHAIRMAN. That would take about 1,900,000 cords of wood. wouldn't it? What are the figures on that?

Mr. Jones. Two cords of wood to a ton of sulphite.

The CHAIRMAN. How long will their forests stand that drain together with the drain of the lumber business?

Mr. Jones. They are practicing forestry over there. In fact, from all the information we can get on the subject, notwithstanding the enormous quanties of pulp produced by Germany, they have more and better forests to-day than they had twenty years ago.
The CHAIRMAN. This does not come from Germany.

Mr. Jones. This is from Scandinavia alone, but we have also a great deal of competition from Germany, which this man does not mention at all. I think it is a well-known fact that the forests in Russia and Finland, or Finland-Russia, they call it, are greater than anything we have on this side of the water.

The CHAIRMAN. Greater than the Canadian forests?

Mr. Jones. So far as the territory is concerned, I think, yes.

The CHAIRMAN. But the territory is quite restricted. Mr. Jones. There is a pretty large territory in Russia.

The CHAIRMAN. Yes; Russia is a large country.

Mr. Jones. There is a great country there. I believe that the American market can absorb, and will absorb, all the wood products (pulp paper) of Canada and this country, and at the same time will maintain a fair market for our goods and fair wages for our workmen; but we can not stand, so far as the sulphite end of it is concerned, the European competition.

The CHAIRMAN. You are really afraid of Scandinavian competition

Mr. Jones. Yes, sir. It is a very serious matter with us.

The CHAIRMAN. Have you ever been over there? Mr. Jones. I never have been in the pulp mills. The CHAIRMAN. I mean investigating this question.

Mr. Jones. No, sir.

The CHAIRMAN. Do they get ample water power at the seashore? Mr. Jones. The manufacture of sulphite is not so much dependent on the water power.

The CHAIRMAN. Not the same as ground wood?

Mr. Jones. No, sir. I presume they get some. I don't know as to the full particulars. They probably have cheap coal. Some sulphite making is operated wholly by steam successfully.

The CHAIRMAN. I should suppose, not knowing, that they did not

have a cheap coal over there.

Mr. Jones. Yes.

The CHAIRMAN. It may become necessary for this committee to make a trip there.

Mr. Jones. Yes, I should be pleased to accompany you. I want to say this, that it is a matter which should be considered seriously.

The CHAIRMAN. Do you know how much sulphite there is being used in the United States now?

Mr. Jones. That is a pretty hard question. Do you mean the normal sales?

The CHAIRMAN. No, the amount that is being consumed.

Mr. Jones. I have those figures very closely.

The CHAIRMAN. We have figures that have just been compiled by the Bureau of the Census in the Agricultural Department. Total amount of wood used in the manufacture of sulphite in the United States last year was 2,059,496 cords.

Mr. Jones. How much in ground wood; have you those figures? The CHAIRMAN. Yes, 1,361,302 cords; soda process, 541,462 cords,

or a total of 3,962,660 cords for all processes.

Mr. Jones. It would be around two billion board feet, 2 cords to

the thousand, if I figure correctly.

The CHAIRMAN. The total amount of wood pulp imported last year, which will be for the fiscal year of 1907, from Europe, was 63,283 tons; from Canada 149,827 tons. Of course the European was sulphite and the other mostly ground pulp.

Mr. Jones. Do you understand from those figures that 63,283 tons

was all kinds of pulp imported from Europe this last year?
The CHAIRMAN. Yes, sir. All kinds.

Mr. Jones. The records at the ports of New York, Boston, Philadelphia and Baltimore show that there was 50,961 tons of unbleached sulphite alone imported, and my impression is that there is as much or more of the bleached as of the unbleached.

The CHAIRMAN. Evidently your impression is erroneous. Mr. Jones. These figures are taken directly from the-

The CHAIRMAN. So are these. These are complete. These are figures taken from the returns of all of the customs officers.

Mr. Jones. That is, from Europe alone?

The CHAIRMAN. It is giving the quantity and value of wood pulp imported from 1902 to 1907. In 1907 the total quantity imported altogether was 213,110 tons, valued at \$6,348,857. The quantity imported from Europe was 63,283 tons, valued at \$3,118,585, and from North America, 149,827 tons, valued at \$3,230,272. While the amount imported from Europe was 63,000 tons and the amount imported from America was 149,000 tons, the valuation was about the same in the two places.

Mr. Jones. The importation from Canada includes the ground

wood?

The CHAIRMAN. Certainly.

Mr. Jones. The importation from Europe would represent the chemical pulp only.

The CHAIRMAN. Practically sulphite?

Mr. Jones. Yes; bleached and unbleached.

The CHAIRMAN. I have just had the Department of the Treasury go through the customs books at these different collection points and gather for me the different grades of importations according to the tariff schedule under 2 cents a pound, between 2 and 2½ cents a pound, and so forth. That is the basis on which the tariff is collected. Of course, their figures as they return them to the Bureau of Statistics do not make that differentiation, but I wanted that. The Treasury Department has just collected that for me and has it complete now, I think, from all of the ports that bring in wood pulp, with one exception, and that is one of the ports on our Canadian boundary, and that probably is at my office at this time. They said it was com-

plete with that one exception. That we will have published in a short time probably.

Mr. Jones. I would like very much to see it.

The CHAIRMAN. That is the first time that any statistics have been gathered by the Government making the distinction between ground pulp and these other kinds of pulp by valuations. Of course, you get your figures as to sulphite, bleached and unbleached, not from the Government, unless you have somebody go to the collector's office and get them.

Mr. Jones. We do.

The CHAIRMAN. Because the collectors do not make returns that way to the Government.

Mr. Jones. We have some one go to the office and get these figures

The CHAIRMAN. I assume we will have those correct absolutely.

Mr. Jones. The Government must know, must it not, as to whether that is bleached or unbleached fiber? The duty on the unbleached is 3.33 and the duty on bleached is 5.

The CHAIRMAN. The Government must know the difference.

Mr. Jones. They must know whether it is bleached or unbleached. The CHAIRMAN. In making reports they do not report each item by itself. They bunch those things. I wanted these separated and they have gone over their collectors' books and separated this information for the benefit of this committee.

Mr. Jones. I wanted to emphasize this point with you, that while my particular mill is not dependent in any way upon Canada for wood, barring forest fires, I feel quite satisfied that we shall not be, so long as I live; that our mill will not be dependent on Canada for wood so long as I live or so long as I am able to attend the business-

The CHAIRMAN. In other words, that the available supply of pulp wood in the country tributary to your mill is sufficient-

Mr. Jones. Yes, sir.

The CHAIRMAN. To run your mill in perpetuity on the present basis?

Mr. Jones. Yes, sir. Now, on the other hand, I do know something about the sentiment in Canada. I have been there a good deal in the past few years and have met quite a number of the buyers that buy there, men in different parts of Canada, and I believe that should we remove the tariff from pulp and paper we would be more likely to have a prohibitive or an export duty put on pulp woods from Canada than if we kept on the tariff. And before that is done there should be, as I stated at first—this should be a matter of regulation by treaty with Canada.

Mr. Ryan. What, in your opinion, would be the effect of a pro-

hibitory or an export duty on pulp wood?

Mr. Jones. I think that in some particular localities it would put our mills out of business. In fact, I know it would for a short time. It is no use for us to disguise the fact that we are dependent in some localities on Canada for wood. Now, what is the most practical method to perpetuate our supply? Not only in obtaining wood in Canada for the time being, but allowing our own forests to recuperate. There are certain sections of our country where I think the

forests are reproducing themselves to-day, on account of our ability to get wood from Canada. There are other sections where it is different. This thing should not be a question of politics, in my mind. It is not going to be a question of newspaper men, whether it be a penny newspaper or a 3-cent newspaper, against manufacturers; it is a question of protecting what we have got. There are millions and millions of money invested and thousands of men and their families employed, and in some localities it is all there is. When you wipe out the pulp men, you wipe out all the property that there is in that immediate vicinity. Now, how are we going to get at it for the best interests of all? I am not particularly interested in the west; I haven't any interests there, but the west should have free wood from Ontario. It is their natural basis of supply, isn't it, Mr. Sensenbrenner?

Mr. Sensenbrenner. Yes; aside from what we have in our own

country.

Mr. Jones. There is no reason why we should not have it from there. I believe some business arrangement can be made whereby it can be obtained without detriment to the newspaper publishers or the paper manufacturers. I am a protectionist clear up. I would protect the air that comes in from Canada if I could.

The CHAIRMAN. Do you think it is possible to get the New England people up to the point where they would favor a general recip-

rocal tariff relation with Canada?

Mr. Jones. Why, no; not all of them.

The CHAIRMAN. I mean the men who represent them in governmental affairs.

Mr. Jones. Well, I think so far as pulp and paper are concerned

you could; yes, sir.

The CHAIRMAN. Do you think likely that Canada would enter into a treaty that confined itself to pulp and paper and pulp wood?

Mr. Jones. Well, I do not.

The CHAIRMAN. Of course this committee has no jurisdiction on the tariff question.

Mr. Jones. I understand we are just having a sort of friendly talk

on this thing now.

The CHAIRMAN. It may make a recommendation possibly as to

legislation or treaty for that matter.

Mr. Jones. I am throwing out my particular views broadcast. I do not know how they hit anybody. I hoped they might coincide with others.

The CHAIRMAN. We are trying to get opinions and information.

Mr. Jones. I tell our people in the east that we undoubtedly have got to face free lumber. I believe that the west and certain sections of this country will demand it. Don't you feel that way about it, Mr. Sensenbrenner?

Mr. Sensenbrenner. I haven't given the lumber subject much

thought.

The CHARMAN. We will put Mr. Sensenbrenner through the mill

after a while.

Mr. Jones. I only wanted to know whether my ideas agreed with his along certain lines. I may be taking a very narrow view of it myself. But I do not believe, Mr. Chairman, that on pulp and paper

we should put Europe, our hardest competitor, on an equal basis with Canada, with which we might make some sort of a treaty that would

be to our advantage.

The CHARMAN. On that point this suggestion might arise—no one would think it necessary to protect this country against European wheat, for instance. We have, I suppose, a great deal more forest in North America than they have in Europe, certainly a much larger proportion in reference to population, and probably in proportion to the consumption. And whether it is necessary to protect this country against European lumber or European products of lumber I have not gone into and I have no idea, but I did not suppose that was what the paper men feared half as much as they did Canadian competition.

Mr. Jones. I do not fear this Canadian competition so much, perhaps, as some others do. I believe that this market, as I have said, is large enough under normal conditions to absorb the entire product of Canada in the pulp line, ground wood pulp, and quite a large portion of its sulphite, if, on the other hand, Canada will make the right sort of a treaty or arrangement with us to give us wood from Quebec and Ontario. Our mills in this country have been forced to shut down during the past year to the extent of 50 or 60 per cent. Perhaps it might be fair for me to make this statement: Last year during the boom times a great many paper manufacturers became alarmed. They felt that they might not be able to get all the pulp they needed from this country and Canada, unnecessarily so, and they made large contracts for European pulp, which they have been taking in during this year. But, on the other hand, as I have read you there, the products there are increasing alarmingly, over 100,000 tons per annum. We have got to meet it. After they get through in England they are going to use us for a dumping ground. I know of a contract last week for sulphite that was sold in the northern part of New York at less than 2 cents per pound, and there are no men that I know of in this country to-day that can put that pulp at that point at that price without a very heavy loss.

Mr. Ryan. Is that foreign pulp?
Mr. Jones. Yes: foreign pulp.

Mr. Jones. Yes; foreign pulp. Mr. Ryan. Are the mills that are using that foreign pulp prin-

cipally Eastern mills?

Mr. Jones. East and west. Perhaps I have got something right here about that, that I got from my broker in pulp a day or two ago. He says, referring to pulp, "I know of a sale that was made in Kalamazoo of a very good grade of pulp, one that would compare very favorably with Hinckley"—that is one of our good mills, and they make good pulp—"at 197½ Baltimore. The rate from Baltimore to Kalamazoo being 16 cents, this makes a delivery price of 213½. I don't know of any mills making sulphite that can afford to deliver it at Kalamazoo at that price without losing money.

Mr. Ryan. At present? Mr. Jones. Yes, sir.

The CHAIRMAN. You mean without breaking the market a little bit?

Mr. Jones. I mean without an actual loss at the mill. They have no fixed market price on sulphite.

The CHAIRMAN. We went into the subject of the cost of manufacturing sulphite quite extensively in our hearings. I don't know whether you have examined those or not.

Mr. Jones. I don't know, sir, but I think you will find the cost

varies a good deal at different mills.

The CHAIRMAN. Yes; undoubtedly. I think there are some mills

that make a very good profit.

Mr. Jones. I think if you find a mill that can produce sulphite at less than \$17 upset price over the cost of wood, I would like to see its books. Cost above cost of wood at less than \$17 a ton.

The CHAIRMAN. Of course, we do not expect to find in this investigation any mill men who make any money. Is there anything else that you wish to state?

Mr. Jones. I think not.

The CHAIRMAN. We are very much obliged to you. I think that is all this afternoon.

Sертемвек 16, 1908—9 a. m.

STATEMENT OF MR. GEORGE A. WHITING, TAKEN AT HIS MILL IN NEENAH. WIS.

The CHAIRMAN. What is the Wisconsin Valley Improvement Com-

pany, of Wisconsin?

Mr. Whiting. It is a company organized for the purpose of improving water conditions for hydraulic purposes, for heading off freshets, and for making as uniform a flow as is possible for hydraulic purposes. Our authority and our rights are given in the pamphlet which I hand you.

Mr. RYAN. Are the members of it principally pulp men and sul-

phite men and paper manufacturers?

Mr. Whiting. I have a list right here. I have got the Government's estimate of this water back to 1887. I have been working at this proposition for over seventeen years in one way and another, until we finally, a year ago, succeeded in getting legislation where we work in connection with the State board of forestry. You will notice that our organization is a private organization, a company of individuals, and its duties are prescribed in this way——

The CHAIRMAN. You have a special charter, I see, from the State

of Wisconsin.

Mr. Whiting. Yes.

The CHAIRMAN. Chapter 335 of the laws of Wisconsin of 1907, a special charter as the Wisconsin Valley Improvement Company.

Mr. Whiting. Yes. You will notice that we have the right of eminent domain. It is estimated there are about 1,200 of these lakes north of the center line of Lincoln County. These white places on the map that I show you, Twin Lakes, Vieux de Sert, Minocqua, Sand Lake, Eagle Chain, were our property when we went into this proposition. We have bought since then probably 4 billion feet of these lakes. I haven't my engineer's report here, but I have got this checked up. We have bought up these several lakes. We had at that time 2,600 million foot storage, as near as I can remember it, in these lakes. Since then we have bought the big St. Germaine, 200

million, another 1,000 million, another 180 million, another 150 million, another 300 million, another 150 million.

Mr. Ryan. They are supposed to contain that many cubic feet of

water?

Mr. Whiting. That many cubic feet of water for storage purposes. There are a few rights upon these lakes that we have not succeeded in getting their final signatures, but we have got control of these lakes.

The CHAIRMAN. The main purpose of this Wisconsin Valley Im-

provement Company is to conserve the water supply, I take it?

Mr. Whiting. It is to conserve the water supply in unifying the flow for hydraulic purposes and heading off freshets. After they had taken the timber off of there, we would get freshets if we had not these lakes, that would wipe us off the map. I have always contended that the water supply, the power supply, was the best of the natural resources that we have got. It is ahead of the coal mine, because you dig coal out of a hole and it is not replenished, while the water comes down and is raised by the sun and goes back and is as nearly perpetual as possibly can be, unless some such conditions prevail as have this year, which has made a terrible drought throughout the country. You will notice that we are organized with the power of eminent domain, but we can not exercise that power until we receive the consent of the state board of forestry. The intent is to maintain the moisture there in order to assist reforesting, to head off the freshets as much as possible, and to keep as near uniform level of these lakes as possible. We can not draw those lakes up there to exceed 18 inches, I think, during the time of navigation. I mean a point 6 inches above the high water and 12 inches below. That is in order to maintain the beauty of the shore line. From the 15th of November until the next spring we can draw the entire water down to the dead head. In some of these lakes we draw from 48 to 60 inches off from that immense area of water that would naturally go over our dams in a freshet, and it has increased the value of the entire 614-foot fall of the Wisconsin River.

Mr. Ryan. That, of course, does not increase the maximum flow,

does it?

Mr. Whiting. It makes a mean flow. The mean flow of the Wisconsin River, as given by the government report at Merrill, is 8 per cent more than the mean flow at Kaukauna, but the maximum and minimum flow of the Wisconsin River, the river being so erratic, as shown in these reports here, the extreme low-water flow at Stevens Point in 1887, he gives here low water dry year 1,512 cubic feet flow. This is the minimum. Ordinary low water, 2,160 cubic feet per second. Average water per year, 5,222. Extreme high water, 42,600. See what we are going against. You can see the river a mile wide. That was in 1887.

The CHAIRMAN. Do you know whether the Government in the Geological Department keeps a record of the extreme measurement of

these rivers?

Mr. Whiting. They do; but they do not work out in practice. They have records at Madison and the hydrographic department at Washington has records, and I can furnish you those records. They are somewhere here.

The CHAIRMAN. We have those.

Mr. Whiting. The average precipitation for the years given of the headwaters of the Wisconsin River from observations taken at the following stations, Antigo, Crandon, North Crandon, Hefford Junction. Merrill, Keopenick, Tomahawk, Minocqua, the grand average was 30.87 inches. That was the water in 1907. The rainfall for 1907 was 23.16 inches. Now we have a drainage area on the Wisconsin River at its lowest point of power of 7,865 square miles. consin River Paper Company, which is practically centrally located on the river, we have 5,005 square miles of drainage area. It is a mathematical proposition for any hydraulic engineer to take this data, or any intelligent man, and figure out what the result of the dry weather is on powers that we have got to-day.

Mr. RYAN. Are there any of them right now seriously inconven-

ienced because they haven't got sufficient water?

Mr. Whiting. Facts are better than fiction. I will give you history. The CHAIRMAN. You do not get, I take it, the full benefit of your service at this season of the year, on account of navigation.

Mr. Whiting. There is no navigation in the Wisconsin River.

The Chairman. They do not allow you to draw down the water on account of navigation at this season of the year to the same level

that you can in the winter time.

Mr. WHITING. That is right. Then I would say another thing. At the mouth of Cranberry Lake we are just installing a dam; we are putting in cement dams up there and making them permanent; we are just installing a dam with, I think, twelve to fourteen foot rise where we put in slides to take the boats out of the lower lake into the lake above, at an expense of about \$20,000. That was part of our contract with the State, to make that stream navigable for pleasure

The CHAIRMAN. In a general way the manufacture of ground wood

pulp is absolutely dependent upon water power, isn't it?

Mr. WHITING. Yes. Here are our year's runs right here: January. 19,800—these are supposed to be low months—February, 19,150; March, 45,600, and April, 76,150. That is bundles of pulp, 40 pounds to the bundle.

Mr. RYAN. Ground in the mill here?

Mr. Whiting. Ground in our mill on the Wisconsin River. biggest part of our business is on the Wisconsin River. May, 74,600: June, 60,700; July, 51,900, and August, 15,200. The Chairman. That was last month.

Mr. Whiting. Yes. Up to the 13th of this month, 7,850.

The CHAIRMAN. Do I understand you to say that the amount is controlled entirely by the water supply?

Mr. Whiting. The amount of the pulp is controlled entirely by

our water supply to reach our wheels for pulp purposes.

The CHAIRMAN. In April and May you had all the water you could use. I take it.

Mr. Whiting. And more.

The CHAIRMAN. You had all you could use? Mr. Whiting. Yes.

The CHAIRMAN. So that then your mills were running at full capacity?

Mr. Whiting. Yes, and we were storing that pulp. Now we have to buy or close down in this present condition. Even with the bad

year of 1907, in September we made 49,500 and October we made 56,600.

The CHAIRMAN. The present drought is what would be called an

extreme drought, I take it.

Mr. Whiting. Yes, sir. It is an extreme drought and something that I do not think has occurred since 1886. I haven't the data back to 1886 only as I get it from the Government report. Let me show you a normal year. We will take the year 1906: January we made 49.000; February, 41,400; March, 52,000; April, 69.000; May, 74,250; June, 68,600; July, 56,400; August, 55,000; September, 64,900; October, 54,600; November, 82,500, and December, 56,500.

Mr. RYAN. Why were the first two months of 1908, January and

February, so exceptionally low.

Mr. Whiting. We had not precipitation. Nature did not furnish us with it.

Mr. Ryan. Were you able to draw water off from your storage

up here?

The CHAIRMAN. In other words, was that falling off in January and February due to water supply, or was it due to the stoppage of the mills for other reasons?

Mr. Whiting. It was due to water supply. The CHAIRMAN. In January and February? Mr. Whiting. Yes.

Mr. Ryan. This year?

Mr. Whiting. Yes; it was due to water supply. I can give you the water every day, if necessary. Every day I get reports of the whole proposition here.

Mr. Ryan. It seems strange that it should go so very low in January and February of this year when you could let more water come

Mr. Whiting. We exhausted our water. We had not the amount of storage. Let me go back a little further. In 1907, when we were getting this legislation through the legislature, we had some un-friendly friends up there who blew out a couple of our dams and let out, I think, some 12 miles area of our water, and for that reason, of course, we had not that amount of water. Then another thing, we had not our system in as well as we had previous to that when we owned it before the State had anything to do with it. We are financed in this way—our stock can draw but 6 per cent. The railroad commission passes on our tolls, and we are allowed to charge toll at the rate of 6 per cent and the actual cost of maintaining this proposition, so that it would be an impossibility to make a stock-jobbing or profit-making institution out of this to exceed the 6 per cent of our capital stock and the actual cost of maintenance. They take our engineer's report and our secretary and treasurer's report and they have a hearing on a certain date and all water users and all parties are invited to appear, and if they have any objection to the tolls it is passed upon by the commission.

Mr. Norris. Is that toll per cubic foot passing a given point? Mr. WHITING. It is toll per cubic foot for storage proposition.

Mr. RYAN. Your water that you had in storage last January and February was not of much use to you?

Mr. Whiting. Yes, sir; it was.

Mr. RYAN. If you didn't have any, would you have been compelled to close?

Mr. Whiting. Entirely; that is, so far as pulp making is concerned. We did not draw out of those storage basins to exceed, I think, 26,000 cubic feet of water a minute, where with the storage basins we have now we ought to be able, if we have any precipitation, to draw from 50 to 75 cubic feet of water a minute.

Mr. Ryan. January and February of 1908 were exceptionally bad

months, were they?

Mr. Whiting. They were, and January and February of 1906 were exceptionally good because we had a rainy season all through the winter nearly. We did not get to exceed 75 per cent of our normal precipitation. In my judgment there is not a hydraulic engineer. whether it is a private engineer or a Government engineer, but what figures the run-off a great deal more than it will work out in practical use. It is a criticism that I have made to a great many thorough hydraulic engineers, that their estimates were too heavy. I don't know any more about hydraulic engineering than a horse does about his parentage, but I have been building dams and using water for twenty years and I know something about the practical end of it.

The CHAIRMAN. In a general way, from your observation and experience for many years in Wisconsin, do you think there has been any shortage or diminution in the rain on account of cutting off the

forests?

Mr. Whiting. From the data at hand, I would hardly think so. I think there has been this, that we have got our freshets earlier, and I will explain this way, that when the forests were up there the snow would get into the roots under the trees and leaves and mulch and it would be June and July before it would get down, but now being exposed to the sun we get it quick, and of course coming into the reservoirs quick and we naturally get more than we would if it was held back in the springs or in the mulch.

The CHAIRMAN. Is most of that country that has been cut over and the pine forest cut out grown up with some kind of underbrush

or new foresting, small stuff?

Mr. Whiting. They are reforesting parts of it and in other parts the growth of small stuff is very healthy and very vigorous—that is, wherever there is any show of moisture being maintained. My observation has not been back of the lakes to any extent.

The CHAIRMAN. Isn't it pretty well grown up with young stuff?

Mr. Whiting. No; I do not find it so. There is one peculiar thing about all this western country—I do not know that it is so much in other countries—but you let a windfall go through or a forest fire and the first thing that bobs up is a lot of poplars. Our state forester says that this seed has been lying probably for a century dormant, and the heat and exposure has brought a condition that propagates them and starts them to growth. After these poplar or these quickergrowing trees come up, their usefulness is simply in protecting the white pine that follows them, and in a few years the poplar dies out and the white pine comes up.

The CHAIRMAN. They shade the ground?

Mr. Whiting. They bring about another condition, with these seeds lying dormant in the ground so long they act simply as a mother hen that nests the white pine and it will come right up every time you get

rid of these poplar forests, and you will see the little white pine coming and often the poplar will get black and die and rot away and the pine will come up.

Mr. Ryan. Same as it was before?

Mr. WHITING. Yes. I am working right hand in glove with our state forester, Mr. Griffith. I think he is as thoroughly competent and as conscientious a man as there is in the business, and he is a great friend of Mr. Pinchot. You asked me a question regarding precipitation.

The Chairman. Just in a general way.

Mr. WHITING. There is the precipitation for the twelve years right

there [referring to a table].

The CHAIRMAN. Mr. Whiting presents a pamphlet entitled "Wisconsin Valley Improvement Company," a record of its organization, its articles of incorporation and by-laws, the law enacted for its government, with a statement of its purposes:

WISCONSIN VALLEY IMPROVEMENT COMPANY.

[A record of its organization, its articles of incorporation and by-laws, the law enacted for its government, a statement of its purposes.]

INTRODUCTORY.

The importance of the Wisconsin River as a factor in the settlement of the northern part of Wisconsin and in the development industrially and otherwise of this large region has been long recognized. In early days the use of the stream as a highway for transporting logs and timber products was the most important. In later years, and especially since the discovery of improved methods of transmitting power electrically, its water powers have been recognized as at least of equal importance. To make the river most serviceable for both navigation and power uses necessitates the storing of its waters in seasons of floods for use in times of drought, so as to make the flow in the river as nearly uniform as possible. After many conferences, participated in by representatives from every county on the Wisconsin River north of Kilbourn City, a plan of action was unanimously agreed upon during the summer of 1906, and at a meeting held in the city of Wausau, Wis., on the 21st day of September, 1906, the following articles of organization were unanimously approved and adopted, and Messrs. George A. Whiting, Walter Alexander, R. B. Tweedy, Lewis M. Alexander, A. H. Reld, Neal Brown, B. R. Goggins, and G. D. Jones were requested to duly sign and acknowledge such articles, and these gentlemen, together with Messrs. Mart Hirzel, A. W. Shelton, and W. E. Brown, were appointed a committee to procure the enactment of a suitable law to enable the company to perform its labors and duties efficiently.

George A. Whiting presided at each of said conference meetings, and G. D.

Jones acted as secretary.

ARTICLES OF INCORPORATION.

Know all men by these presents: That George A. Whiting, Walter Alexander, R. B. Tweedy, Lewis M. Alexander, A. H. Reid, Neal Brown, B. R. Goggins, and G. D. Jones, being all adult persons and residents of the State of Wisconsin, do make, sign, and acknowledge the following articles:

ABTICLE I.—Purposes.

Said parties hereby associate together for the purpose of forming a corporation under and pursuant to the statutes of the State of Wisconsin, and particularly chapter 86 of the Wisconsin statutes of 1898, as amended, for the following stated business and purposes, to wit:

To establish, create, maintain, and operate a system of water reservoirs located in, upon, or along the Wisconsin River at points north of the north line of townships 41, Vilas County, Wis., and in, upon, or along each, any, and every direct or indirect tributary of the Wisconsin River that discharges into said river at any point north of the south line of Lincoln County in the State of Wisconsin for the purposes of producing as nearly a uniform flow of water as practicable in the Tomahawk and Wisconsin rivers throughout all seasons, by holding back and storing up in said reservoirs surplus water in times of great supply and gradually discharging the same in times of drought and scarcity. and thereby improving the navigation and usefulness of said Tomahawk and Wisconsin rivers and their tributaries throughout their entire length, for all other purposes for which the same may be legally used, and diminishing the injury by floods and freshets to property located along, upon, or across the said Tomahawk and Wisconsin rivers; to erect, construct, and maintain all such dams, sluiceways, locks, and other structures in, along, or across any and all such lakes, rivers, and creeks as may be necessary or reasonably convenient to accomplish the purposes aforesaid; to clean out, straighten, deepen, or otherwise improve any of said lakes, rivers, or creeks, and build and operate flooding dams in order to facilitate the ready flowing of water into said Tomahawk and Wisconsin rivers, and the driving, holding and handling of logs and other floatables in any such improved stream; to purchase, acquire, hold and exercise any and all franchises and powers heretofore granted, or which may hereafter be granted by the legislature of the State of Wisconsin, for the improvement in any manner, of any such streams and lakes; to collect and receive all tolls collectable by the terms of any franchise or power that may be acquired by it: to buy, acquire, hold, pledge and sell stock in any other corporation organized for the purpose of improving for navigation or other purposes the said Wisconsin River, or any of the said tributaries thereof above mentioned; to purchase, hold and mortgage or sell any and all real estate or personal property that may be necessary or reasonably convenient for use in accomplishing the general purposes hereinbefore specified; to exercise all powers of eminent domain that said corporation may at any time acquire and to do all other acts and carry on all other lines of business incidental to or reasonably convenient for the accomplishment of the general purposes hereinbefore stated.

ARTICLE II.-Name and location.

The name of such corporation shall be "Wisconsin Valley Improvement Company," and its location shall be at the city of Wausau, Wis.

ARTICLE III.—Capital stock.

The authorized capital stock of said corporation shall be \$100,000, the number of shares of said stock shall be 1,000, and the amount of each share shall be \$100.

ARTICLE IV .-- Officers.

The general officers of said corporation shall be a president, vice-president, secretary and treasurer, and the number of directors shall be seven. The directors shall be elected annually by the stockholders and the general officers shall be elected annually by the board of directors, at such time or times respectively as shall be appointed by the by-laws of the corporation. The offices of secretary and treasurer may be held by one person. The board of directors shall have power to create and fill at their pleasure such other minor offices as may be found necessary. No compensation shall be paid to a director except for special services.

ARTICLE V.—Duties of officers.

The principal duties of the general officers shall be as follows:

The president shall preside at all meetings of the stockholders and of the board of directors and shall have all the power and perform all the duties usually incident to the office of president of a corporation, and shall have such further powers and duties as may be prescribed by the by-laws or board of directors.

The vice-president shall, in the absence of the president, or in case of a vacancy in that office, perform the duties and have the powers of the president. The secretary shall keep a record of the proceedings of the meetings of the stockholders and of the directors; keep a record of the capital stock and transfers and assignments thereof; shall have the custody of the corporate seal, and

shall perform such other duties as are usually incident to the office of secretary and such as may be imposed by the by-laws or the board of directors.

The treasurer shall be the custodian of the moneys of the corporation, and shall disburse the same as he shall be authorized by the by-laws or board of directors. He shall annually report at the annual meeting of the stockholders and as often as required by the board of directors the financial condition of the corporation, which report shall set forth the nature and amount of business transacted during the year. He shall keep full and accurate account of the moneys of the corporation, and perform such other duties as are usually incident to his office.

ARTICLE VI.-Members or stockholders.

Persons appearing by the stock record of said corporation as holding stock therein shall be members thereof and none others.

No subscription to, and no transfer of, any capital stock of said corporation shall be accepted or be valid unless by the contract of subscription or transfer the same shall be made upon the express condition that this corporation shall have at all times the right, at the option of its board of directors, to purchase from the stockholder, his personal representatives or assigns, the whole or a part of such holder's stock in said corporation at a price equal to the par value thereof, such option to be exercisable when any of the following conditions arise:

(a) In case any stockholder shall not be, or shall cease to be either an owner or a lessee of a water power benefited or capable of being benefited by this corporation's works, or a person in charge and control of such water power so as

to stand in place of the owner thereof in some capacity, and

(b) In case any stockholder shall hold a greater proportion of all of the outstanding capital stock of this corporation than the cubic foot storage fall of the water power so owned, leased or represented by him and capable of being benefited as above mentioned shall bear to the sum of the cubic foot storage fall of all of such water powers on the Wisconsin and Tomahawk rivers between the headwaters thereof and the foot of the rapids at Kilbourn City, Wis., excluding all undeveloped water powers not capable of developing a theoretical 10-foot head, or more, in which event this corporation shall have the right to purchase

only the excess of such proportion of the stock held by such stockholder.

(c) In case any such owner, lessee or representative not then holding any of the capital stock of this corporation or not then holding his full proportion of the same in accordance with the cubic foot storage fall of his water power as above set forth shall apply to the board of directors to purchase such additional stock as shall bring his stock holdings up to such proportion, it shall be the duty of such board of directors and they shall be authorized to purchase pursuant to the option aforesaid from the stockholders described in subdivision (a) above, or if there be none such then from those described in subdivision (b) and resell to such applicant a sufficient amount to correct any such disproportion. In computing the proportion aforesaid all the owners, lessees, and other representatives of each water power shall be treated as a unit and the board of directors shall be empowered to determine such proportion. The "cubic foot storage fall" of each water power shall be determined by multiplying the height of the head of water that may be obtained by proper development of such water power by the storage capacity, expressed in cubic feet, of the reservoirs of the corporation available for use in benefiting such power. The capacities of reservoirs shall be taken to be the amount of water available to be stored and drawn from such reservoirs by the corporation's works. It shall be the duty of the board of directors to call to their assistance disinterested competent hydraulic engineers to determine such cubic foot storage fall of each power, unless they unanimously agree on the amount.

Notice of the option aforesaid shall appear on the face of every stock certificate issued by the corporation. It shall be the duty of the board of directors by the exercise of the powers and option above mentioned, to maintain the distribution of the capital stock of the said corporation among all the stockholders as nearly as practicable in proportion to the cubic foot storage fall of the water

powers as above outlined.

ARTICLE VII.—First meeting of stock subscribers.

The first meeting of the subscribers to the capital stock of said corporation shall be called by the signers of the articles as soon as, but not before, a subscription to the capital stock of said corporation aggregating 70 per cent of the

authorized capital stock, each subscription to be in proportion to the cubic foot storage fall of the water power represented, shall be obtained from the owners, lessees or other representatives of the water powers aforesaid of the Tomahawk and Wisconsin rivers above the foot of the rapids at Kilbourn City, Wis. In determining when such subscriptions shall have been received, only undeveloped water powers capable of developing a 10 foot or greater head and developed powers of any head shall be considered. Such first meeting shall be held at such convenient point in the Wisconsin River valley as shall be appointed by the signers of the articles. At least five, and not more than ten, days' notice by mail shall be given to each stock subscriber of the time and place of such meeting.

ARTICLE VIII.—Tolls and charges.

It shall be the duty of the board of directors to so fix, determine and charge tolls, fees or other charges laid or collected for the benefits conferred on water power owners by the works of said corporation, that not more than sufficient funds shall be collected to pay an annual dividend of the capital stock paid in of 6 per cent after paying all the costs of operating and maintaining the system of reservoirs and other works of the corporation, not including, however, the cost of any betterment or extension of the system of works or reservoirs. All charges for benefits conferred on owners, lessees, or other representatives of water powers shall be made pro rata in accordance with the cubic foot storage fall of all operated water powers benefited. In case any particular water power shall be used by more than one person such fees, tolls, or charges shall be payable by the person or persons receiving the benefit and in proportion to the benefit received.

ABTICLE IX.-Use of reservoirs.

The board of directors shall so manage and operate the works of the corporation that the reservoirs tributary to each of said rivers shall be used primarily to serve to best advantage the water powers on the same stream and the use of all reservoirs shall be so managed as to equitably and proportionally benefit each water power on the same stream as compared wth the others. This article shall not be amended except by a vote in favor thereof of at least five-sixths of all outstanding capital stock.

ARTICLE X.—Removal of officers.

Any director or other officer of the corporation who shall either intentionally or by reason of lack of reasonable attention and consideration violate any of his duties enjoined upon him by these articles shall be subject to removal from office by any court of general jurisdiction, otherwise having jurisdiction of the action in an action in equity, upon the complaint of any person aggrieved.

In witness whereof the parties have hereunto subscribed their names this

21st day of September, 1906.

GEO. A. WHITING. WALTER ALEXANDER. R. B. TWEEDY. LEWIS M. ALEXANDER. A. H. REID. NEAL BROWN. B. R. Goggins. G. D. JONES.

In presence of-MARGARET RYAN. JOHN L. SELL.

ACKNOWLEDGMENT.

STATE OF WISCONSIN, Marathon County, 88.

Personally came before me this 21st day of September, 1906, the above named, Geo. A. Whiting, Walter Alexander, R. B. Tweedy, Lewis M. Alexander, A. H. Reid, Neal Brown, B. R. Googins, and G. D. Jones, to me known to be the persons who executed the foregoing articles of incorporation, and they severally acknowledged the execution of said articles for the uses and purposes therein stated.

Witness my hand and official seal. My notarial commission expires April 12, 1908.

> MARGARET RYAN, Notary Public, Wisconsin.

ACT OF LEGISLATURE.

The committee appointed to procure the enactment of a suitable law to entitle the company to perform its duties and labors officially, prepared and proposed a measure for presentation to the legislature of Wisconsin at the 1907 session. The measure was important, and was given very careful consideration by the legislature, and on June 22, 1907, chapter 335 of the laws of Wisconsin for 1907 was duly approved by the governor, and was published June 24, 1907, and is as follows:

LAWS OF WISCONSIN 1907, CHAPTER 335.

AN ACT To authorize Wisconsin Valley Improvement Company to construct, acquire, and maintain a system of water reservoirs located on the tributaries of the Wisconsin River north of the south line of township 34 north, for the purpose of producing a uniform flow of water in the Wisconsin River and its said tributaries, and thereby improving the navigation and other uses of said streams and diminishing the injury to property both public and private.

The people of the State of Wisconsin, represented in senate and assembly, do enact as follows:

SECTION 1. (Location of reservoirs, acquisition and protection of other franchises, Eagle River to be kept navigable; tolls.)—Subject to the supervision and control hereinafter provided for, authority is hereby granted unto Wisconsin Valley Improvement Company, in order to promote the purposes hereinafter set forth, to create, construct, acquire, maintain, and operate a system of water reservoirs located in or along the Wisconsin River at points north of township 40 north, of range 10 east, and in or along any or all of the direct or indirect tributaries of the Wisconsin River that discharge into said river at any point north of the south line of township 34 north, in this State, excepting that part of the Eagle River and lakes lying between the point where Eagle River enters Cranberry Lake, in section 31, township 40 north, of range 11 east, and the Wisconsin River, and for that purpose said grantee may construct, acquire, and maintain all such dams, booms, sluiceways, locks, and other structures in, along, or across any and all of said tributaries, not above excepted, and the said portion of the Wisconsin River, as may be necessary or reasonably convenient to accomplish the purposes of this grant, and may clean out, straighten, deepen, or otherwise improve any of said tributaries in order to improve the navigation thereof and of said Wisconsin River and prevent injury to property bordering on said waters. All franchises, other than corporate franchises, and all riparian rights and rights of flowage, either perfected or inchoate, acquired by purchase or grant, by any person or by any corporation organized to improve the navigation for any purpose, of either of said Wisconsin or Tomahawk rivers or any of their tributaries, not above excepted, shall be and hereby are made assignable to the Wisconsin Valley Improvement Company, and shall be of the same force and effect in the possession and ownership of such assignee to accomplish the purpose of this act as the same may be before assignment to accomplish their original purpose. But this act shall not amend or repeal chapter 532 of the laws of 1887, nor chapter 252 of the laws of 1889, nor chapter 483 of the laws of 1905, nor chapter 26 of the laws of 1903, nor any amendment thereof, nor abridge the rights, powers, or duties conferred by said acts, nor authorize the taking by the Wisconsin Valley Improvement Company, by the power of eminent domain, of any property used under or pursuant to said acts nor any other property devoted to public uses, except that the dam authorized by and now maintained under said chapter 532 of the laws of 1887 may be raised, or a new dam or dams, which are hereby authorized, may be constructed and maintained in and across the Eagle River between Long and Cranberry lakes at any convenient point or points in townships 39 and 40 north, of range 11 east, so as to raise and hold the water in Long Lake aforesaid 6 inches, and no more, higher than the high-water mark to which the water has been customarily raised and held by means of said present dam; provided, however, that between May 1 and the succeeding November 1 of each year the waters shall not be drawn down in Long Lake more than 18 inches below said present high-water mark as established by said dam now constructed and maintained; and provided further, that said Wisconsin Valley Improvement Company shall prior to June 1, 1909, by such dam or dams and by locks, marine slides, or other safe and convenient means, make and thereafter maintain the Eagle River between said Long and Cremberry lakes navigable for the safe and convenient passage of boats of all kinds and sizes up to and including boats 50 feet in length and 12 foot beam and drawing 5 feet of water. Said Wisconsin Valley Improvement Company shall have the right to charge and collect reasonable and uniform tolls for the passage of boats through and over said works proportioned to the size of the boat, not, however, exceeding in the aggregate the actual cost of the care, maintenance, and overstion of said looks, marine slides, or other means of passage.

tenance, and operation of said locks, marine slides, or other means of passage.

Sec. 2. (Purposes of reservoirs.)—The said authority is granted for the purpose of producing as nearly a uniform flow of water as practicable in the Wisconsin and Tomahawk rivers through all seasons by holding back and storing up in said reservoirs the surplus water in times of great supply, and discharging the same in times of drought and a scarcity of water, and thereby, and by other means, improving the navigation of said Wisconsin and Tomahawk rivers throughout their entire length for boats, barges, and other water craft, and for the running, driving, rafting, booming, storing, sorting, and delivering of logs, timber and lumber, and other forest products, and for the purpose of improving the usefulness of said streams for all public purposes, and of diminishing the damage and injury by floods and freshets to property, both public and private, located along said waters. It shall be the duty of said Wisconsin Valley Improvement Company to so manage, operate, and maintain all of its said reservoirs and other works that the purposes aforesaid shall be accomplished to the greatest practicable extent and so that as nearly a uniform flow of water as practicable shall be maintained at all times and at all points on said Wisconsin and Tomahawk rivers, and during the times when it may be found to be impracticable to maintain at the same time such uniform flow in the Wisconsin River, both below the north line of Lincoln County and above the same line, the portions of said streams above said line shall be given preference.

SEC. 3. (Condemnation proceedings; state lands.)—For the purpose of creating, acquiring, maintaining, and operating the dams and other works, authorized as aforesaid, and subject to the supervision and control hereinafter provided for, the Wisconsin Valley Improvement Company, excepting as herein otherwise excepted or provided, is hereby authorized to take and use any lands, riparian, or other rights, that may be required for the creation, construction, and maintenance of any and all reservoirs, dams, and other structures and improvements that may be necessary to accomplish the purposes of this act, and whenever it can not agree with the owner or owners of any such required lands, or other property, for the purchase thereof and for the compensation to be paid therefor, the said Wisconsin Valley Improvement Company may acquire title to any such lands and other property above specified, or the right to use same for said purposes, by the exercise of the power of eminent domain under and in pursuance of sections 1777a, 1777b, 1777c, and 1777d of the Wisconsin statutes of 1898 and the laws amendatory thereof and supplemental thereto, but the said company shall have no right to take or enter into possession or overflow any of the property condemned until it shall have first paid in the manner provided by section 1777c the damages awarded.

And in case the possession or use of any such property shall be obtained by said Wisconsin Valley Improvement Company before acquiring the title thereto or the right to use thereof by purchase or condemnation, the owner or owners of the same property shall have the same right to institute proceedings for condemnation thereof and ascertainment of damages to be paid, as is granted by the aforesaid statutes relating to the exercise of eminent domain. In case any lands of the State of Wisconsin be required to be taken or overflowed for any of the purposes of this act the railroad commission of Wisconsin shall appraise and fix the damage to be caused by such taking or overflow, and the amount thereof shall be paid into the state treasury by the Wisconsin Valley Improvement Company before the taking or overflow shall occur.

SEC. 4. (Tolls secured by license, other companies taxable therewith; railroad commission to regulate.)—In case said Wisconsin Valley Improvement Company shall improve any navigable tributary of the Wisconsin River not herein excepted or shall acquire the improvements or the control of the improvements of any river improvement company already operating on such stream and shall so keep in repair and operate the works as to render the driving of logs and other floatables to the mouth of such tributary reasonably practicable and certain, it may charge and collect reasonable and uniform tolls upon all such logs, timber, and other floatables driven or floated on said stream, and shall have all of the rights and remedies granted to river improvement companies by section 1777 of the Wisconsin statutes, and all amendments thereof, including the right of lien therein provided for, and shall be charged with all the duties and obliga-

tions imposed upon such river improvement companies under like circumstances. When said Wisconsin Valley Improvement Company shall have created or acquired and maintained in successful operation water reservoirs in accordance with this act of a capacity sufficient to store up in times of abundance and retain and discharge in times of scarcity 2,000,000,000 cubic feet of water that would not be so stored up and retained by nature, it shall, subject to the supervision and control hereinafter provided for, be entitled to charge, collect, and receive reasonable and uniform tolls from the owner or owners or lessee or lessees of each and every improved and operated water power located upon the Wisconsin River, or any tributaries thereof, below any said reservoirs and benefited thereby, but not exceeding in the aggregate of all its revenues sufficient to pay all reasonable costs of operation and maintenance and a net annual return of 6 per cent on cash capital actually paid in on stock subscriptions to the grantee. Said tolls shall be semiannually fixed, ascertained, and determined by the railroad commission of Wisconsin on or about the 1st day of July and the 1st day of January of each year, for the six months' period preceding each of said dates. Said tolls shall be fixed in proportion to the benefits conferred by the reservoir system upon each of the improved and operated water powers aforesaid. It shall be the duty of the grantee to employ competent hydraulic engineers to be selected by the railroad commission of Wisconsin to assist in determining the tolls to be charged as aforesaid, and the expense thereof shall be treated as a part of the cost of maintenance and operation of said works. If any such improved water power be operated by a lessee or lessees under lease or contract made prior to the enactment and publication of this act, then such lessee or lessees shall be chargeable with the payment of such tolls; otherwise the same shall be paid by the owner or owners of the water power. Each water power liable to tolls as above provided, which shall be operated two months or more during any six months' toll period, shall be subject to tolls for the whole of the same period; otherwise no tolls for that period shall be chargeable.

Sec. 5. (Railroad commission, semiannual reports to; hearings on tolls; appeals from. Tolls, use and enforcement of.) -On or before June 15 and December 15 of each year said Wisconsin Valley Improvement Company shall lay before the railroad commission of Wisconsin a statement showing all expenditures made or necessary to be made for the next six months' period next preceding July 1. and January 1, respectively, of each year, for maintenance and operation of such reservoir system, all capital stock of said company issued and then outstanding, the cash capital actually paid in, the storage capacity and location of each reservoir, and all reports and data obtained from engineers employed as provided in section 4 of this act, and such other information and statements as the commission shall require, together with a recommendation of the amount of tolls necessary to pay such cost of maintenance and operation and a net return of 6 per cent per annum on the capital invested, and a recommendation as to the apportionment thereof against the owners or operators of improved powers, in accordance with said section 4. The railroad commission shall thereupon give to each water-power operator proposed to be charged with tolls ten days' notice by mail of the amount of tolls recommended to be charged against him and of the time when and place where the railroad commission will hear objections to the proposed tolls. The railroad commission shall at the time appointed hear all objections made and may take evidence and make or cause to be made independent investigation of the validity of the same, and may adjourn from time to time, and shall, as soon as practicable, on or about July 1 and January 1 of each year, determine and certify the amount of tolls to be collected from each water-power operator for the period under consideration, and such tolls shall thereupon be due and payable to the Wisconsin Valley Improvement Company.

Any person in interest being dissatisfied with any order of the commission authorized to be made under this act may commence an action in the circuit court of the county where the property affected is located, against the commission as defendant, to vacate and set aside any such order within sixty days from the date of the mailing to such person of a copy of such order by the commission, on the ground that such order is unlawful or unreasonable; in which case the complaint shall be served with the summons. The commission shall immediately notify the said company by mail of the service of said complaint. Within twenty days after the mailing of such notice to said company the said company or said commission shall file its answer to said complaint, and said action shall be at issue and stand ready for trial the same as any other action.

In all trials under this section the burden of proof shall be upon the plaintiff to show by clear and satisfactory evidence that the order of the commission

complained of is unlawful or unreasonable, as the case may be. Every party to said action, within sixty days after the service of a copy of the order of judg-

ment of the circuit court, may appeal to the supreme court.

No tolls shall be levied or used to pay for any part of the original construction or purchase or betterment of the reservoir system. The amount of such tolls shall be a lien upon the water power, dam, franchises, and flowage rights of the person or corporation chargeable with such tolls, and in case such tolls shall not be paid when due the person or corporation entitled to collect the same shall be entitled to sue for and collect the same by an action at law or by a suit in equity for the foreclosure and enforcement of said lien, and for sale of the property affected thereby pursuant to such judgment of foreclosure.

Sec. 6.—(Forestry board to regulate constructions and flow. Railroad commission's approval of stock issue. Resources for cost and maintenance.)—No dam or reservoir not now in existence or heretofore authorized shall be constructed or created until the plan therefor, showing the form and location of the dam and a description of the lands to be overflowed thereby, be first submitted to the State board of forestry and approved thereby, after first giving reasonable notice and opportunity to be heard, to all persons interested, by publication in one or more newspapers most likely to give such notice, or such other notice as the board shall deem advisable, nor shall any petition be filed for the condemnation of any property for the purposes of this act without first having attached thereto the approval in writing of said board. Said board shall cause the height to which the water may be raised by any dam to be marked by permanent monuments and bench marks and shall have supervision and control of the time and extent of the drawing of water from the reservoirs and the power to compel the maintenance of all reservoirs established. They shall have authority to employ. at the expense of said improvement company, hydraulic engineers and other persons to assist them in obtaining the information necessary to a proper discharge of their duties, such expense to be treated as part of the cost of constructing or maintenance and operation of the reservoir system. No capital stock of said improvement company shall be issued until the proposed issue thereof shall have been submitted to the railroad commission of Wisconsin and said commission shall have ascertained, determined, and certified that the proposed issue will be in consideration of money or labor or property estimated at its true money value actually received by said company, equal to the par value thereof, and it shall be the duty of the said commission to act promptly on any such proposition sub-The money received by said company upon account of capital stock shall be used only in payment of the original cost of purchase, construction, or betterment of the reservoir system and of the work preliminary thereto and necessary to prepare for or to determine upon the same, and all tolls collected as hereinbefore authorized shall be applied only to the payment of cost of maintenance and operation of the system and payment of the net return on capital above provided for, to the end that the capital stock shall be maintained at par value at all times.

Sec. 7. (Fishways, free passage of logs, etc.)—All dams erected or acquired and maintained by the grantee shall be subject to all of the requirements of the statutes now in effect, and all that may be hereafter enacted relating to the providing of good and sufficient fishways in said dams, and shall be equipped with all necessary slides, chutes, guide booms, and piers for the passage of logs and timber over or through the same.

Sec. 8. (This act a public act.)—This act is hereby declared to be a public act and for the accomplishment of public purposes, and shall be favorably con-

strued to the accomplishment of said purpose.

SEC. 9. (Repeal and amendment reserved; time for completion; State may acquire.)—The right is hereby reserved to the legislature to repeal or amend this act at any time; in case the Wisconsin Valley Improvement Company shall not by the 1st day of January, 1909, have in operation reservoirs of the storage capacity of at least 2,000,000,000 cubic feet of water, then the rights and privileges granted by this act shall cease. The State of Wisconsin shall have the right at any time whenever it may have the constitutional power, to take over to itself and become the owner of all reservoirs and other works and property acquired by the Wisconsin Valley Improvement Company, pursuant to this act, by paying therefore the cash capital actually paid on the capital stock of said company theretofore lawfully issued and outstanding or the actual value of the physical properties so taken over and without any allowance for franchises or good will of the business, and if such actual value can not be agreed upon

between the State and such owner, then the same shall be determined by the railroad commission of Wisconsin.

SEC. 10. This act shall take effect and be in force from and after its passage and publication.

Approved June 22, 1907.

MEETINGS.

NOTICE OF FIRST STOCKHOLDERS' MEETING.

Immediately following the passage and publication of said chapter 335, notice was duly given to the signers of the articles of organization of the Wisconsin Valley Improvement Company and to all parties who had subscribed for the stock in that company, that meetings would be held in Wausau July 9, 1907, and the following is a copy of said notice to stockholders:

"To the stockholders of the Wisconsin Valley Improvement Company.

"Gentlemen: As all the requirements relative to the permanent organization of the Wisconsin Valley Improvement Company, including the stock subscriptions for the stock of said company, have been fully compiled with, there will be a meeting of the stockholders of the company at the office of Hurley & Jones, in Wausau, Wis., on Tuesday, July 9, 1907, at 2 'clock p. m., for the purpose of completing the organization of said company, and especially for the purpose of electing a board of directors, and adopting by-laws for the government of the company. A full attendance of the stockholders is desired, as there are many matters of importance that should be considered at this meeting. It is expected that there will be a full discussion at this meeting as to the policy which the company should adopt relative to procuring new reservoirs.

"This notice is given by the direction of the incorporators.

"Dated this 1st day of July, 1907.

"G. D. JONES, Secretary."

INCORPORATORS' MEETING.

On July 9 said meetings were duly held. All of the incorporators were present in person or by proxy, and at their meeting which was first convened the following resolution was unanimously adopted:

"Resolved, by the signers of the articles of incorporation of Wisconsin Valley Improvement Company, that the stock subscriptious heretofore made to the capital stock of said company be now received, subject to all of the conditions and the option contained in the articles of organization."

ACCEPTANCE OF STOCK.

The stock subscriptions for stock in the Wisconsin Valley Improvement Company were presented, and on motion unanimously carried were accepted on condition that the same should be subject to the condition and option contained in the articles of organization, and the secretary was directed to immediately turn over to the stock subscribers all papers, documents, and records of the company.

STOCKHOLDERS' MEETING.

The first meeting of the subscribers to the capital stock of the company was then held, pursuant to the notice above given, and it was found that all such subscribers were present and represented, either in person or by proxy.

Neal Brown was chosen chairman of this meeting and G. D. Jones secretary. On motion, unanimously carried, the following resolution was adopted:

"Resolved, That the terms and conditions imposed upon the stock subscribers by the resolution adopted by the signers of the articles at this date accepting the stock subscriptions presented by such signers be, and the same are hereby, accepted by the stock subscribers."

Thereupon the following by-laws were unanimously adopted as the by-laws

of this corporation:

BY-LAWS.

ARTICLE I .- Annual stockholders' meeting.

The regular annual meeting of the stockholders shall be held at the office of the corporation at Wausau, Marathon County, Wis., on the second Tuesday of May of each year, at 3 o'clock p. m. Such meeting may be adjourned from time to time by those in attendance. The secretary shall give to each stockholder at his or her address, as it appears upon the records of the corporation, written notice by mail or otherwise of the annual stockholders' meeting, not less than five nor more than twenty days before the time fixed therefor each year.

ART. II.—Special stockholders' meeting.

Special meetings of the stockholders may be called at any time by the president or board of directors, and the president shall call such meeting whenever requested in writing by a majority of the stockholders. The secretary shall give written notice by mail or otherwise to all stockholders of all such special meetings not less than five days before the time fixed therefor, but such special meetings may be held without previous notice if all stockholders are present and consent thereto. All stockholders' meetings must be held within the State of Wisconsin.

ART. III.—Annual directors' meeting.

The annual meeting of the board of directors shall be held at the office of the company immediately at the close of the annual stockholders' meeting, but in case there be not then present a quorum of the newly elected board, those present may adjourn the meeting from time to time until it can be held. At such meetings the directors shall elect the general officers of the company.

ABT. IV .- Special directors' meetings.

Special meetings of the board of directors may be called by the president, and he shall call such special meeting whenever requested by any two of the directors. Notice of such special meetings shall be given in writing by the secretary by mail or otherwise to each of the directors at least three days prior to the meeting, but a special directors' meeting may be held at any time and place when all the directors are present or consent thereto.

ART. V .- Proxies.

Every stockholder may be represented and may vote by proxy at each and every meeting of the stockholders, but powers of attorney to act as such proxy shall be in writing and shall be filed with the secretary.

ART. VI.-Quorum.

A majority in amount of all the stock outstanding shall constitute a quorum of the stockholders. A majority in number of the members of the board shall constitute a quorum of the board of directors.

ART. VII.—Authority to directors in reference to real estate.

The board of directors are hereby authorized to purchase, sell, or mortgage any real estate or personal property for or on behalf of this corporation, for such consideration as shall to the board seem fit without any resolution or further action of the stockholders, and consent is hereby given by the stockholders to the making of any such purchase, sale, or mortgage. It shall be the duty of the president and secretary to execute all necessary instruments to accomplish said purpose whenever directed by resolution duly adopted by the board of directors.

ART. VIII .- Duties of directors.

The board of directors shall have general control, supervision, and direction of the business affairs of the corporation. The board may choose such officers and agents of the company in addition to the general officers as they may deem necessary, and may fix the salaries and prescribe the duties of all officers and agents, both general and special.

President. Secretary.

ABT. IX.-Stock certificates.

Stock certificates shall be issued to each stockholder as soon as a full share or any number of shares shall be fully paid for. Each stock certificate shall be in the following form:

[Incorporated under the laws of Wisconsin.]	
No	—— shares.
WISCONSIN VALLEY IMPROVEMENT COMPANY, WAUSAU,	Wis.
[Capital stock, \$100,000.]	
This certifies that ——————————————————————————————————	ssessable, sub- VI of the Arti- the books of rtificate. poration have

Shares, \$100 each.

ART. X .- Transfer of stock.

All capital stock when fully paid shall be nonassessable, and shall be transferable only on the books of the corporation. Persons holding stock according to the stock record, and none others, shall be entitled to vote at all stockholders' meetings in person or by proxy. Every stockholder shall furnish the secretary with his correct address at all times, and failure to do so shall be a waiver of all right to notice of stockholders' meetings.

ART. XI.-Amendments.

These by-laws may be amended at any regular meeting of the stockholders or at any special meeting duly called for that purpose by a majority vote of all the stock represented at the meeting.

ELECTION OF DIRECTORS-ELECTION OF OFFICERS.

The following-named gentlemen were then duly elected directors of this corporation: George A. Whiting, Thomas E. Nash, Lewis M. Alexander, Walter Alexander, Alexander H. Reid, Arthur W. Shelton, and G. D. Jones, and these directors, in session upon the adjournment of the stockholders' meeting, elected George A. Whiting president, Walter Alexander vice-president, and G. D. Jones secretary and treasurer of this corporation.

On the 1st of August the directors engaged A. A. Babcock, jr., an engineer,

On the 1st of August the directors engaged A. A. Babcock, jr., an engineer, as general manager, and the work of the comany has been prosecuted since that time conformably to its articles of incorporation, by-laws, and said chapter 335 of the Laws of Wisconsin for 1907, and has submitted its reports to the railroad commission of Wisconsin, and has been duly authorized to issue stock to stock subscribers who have paid therefor, and to collect tolls earned to January 1, 1908, from those required to pay the same.

THE STOCKHOLDERS.

The stock subscriptions to this time have all been made for the supposed proportionate part which each of the various proprietors of water powers is entitled to receive under the articles of incorporation and under the provisions of said chapter 335 of the Laws of Wisconsin for 1907. It is expected and desired that the remainder of the stock will be taken by the parties who are entitled to the same.

The following is a list of the stockholders of the company and the amount of stock held by each January 1, 1908:

8	hares
Town of Eagle River, Otter Rapids Power	15
Rhinelander Paper Company, Rhinelander Power	. 37
Rhinelander Power Company, Hat Rapids Power	25
Bradley Company, Nigger Island Power	51
Bradley Company, Kings Power	23
Bradley Company, Kings Power Tomahawk River Improvement Company, Tomahawk River Power at Tomahawk	: . 8
Tomahawk Pulp and Paper Company, Wisconsin River Power at Tomahawk	27
Wisconsin Land and Power Company, Grandmother Falls Power	
Grandfather Falls Company, Upper Grandfather Falls Power	
Alexander Stewart Lumber Company, on its Lower Grandfather Falls	
Power	
R. L. Kraus, on his Lower Grandfather Falls Power	34
Wisconsin River Traction and Power Company, Trappe Rapids Power	35
Wausau Paper Mills Company, Brokaw Power	27
Wausau Electric Company, its one-half Wausau Power	21
Alexander Stewart Lumber Company, its one-half Wausau Power	21
Rothschilds Water Power Company, Power Rothschilds, near Schofield	
Joseph Dessert Lumber Company, Mosinee Power	
Jackson Milling Company, its Stevens Point Power	
Wisconsin River Pulp and Paper Company, its Stevens Point Power	
Plover Paper Company, Plover Power	
Grand Rapids Pulp and Paper Company, Biron Power	
Consolidated Water Power and Paper Company, its Grand Rapids power	
Centralia Pulp and Water Power Company, Lower Centralia Power	
John Edwards Manufacturing Company, Port Edwards Power	
Nekoosa Paper Company, Nekoosa Power	34

The engineer's report upon which the stock subscription was apportioned among the owners of water powers on the Tomahawk and Wisconsin rivers, under article 6 of the articles of incorporation, showed a total fall in the Wisconsin River between Otter Rapids, near Eagle River, and Kilbourn City, excluding all undeveloped water powers not capable of developing a theoretical 10-foot head or more, of 602 feet, and a fall in the Tomahawk River so available of 35 feet. Seventy-nine per cent of the stock allotments made have been subscribed for as above stated.

GENERAL REMARKS.

This pamphlet is published by direction of the board of directors of the Wisconsin Valley Improvement Company. There has been more or less misunderstanding regarding the general purposes and intentions of the company. This will be removed when the facts are known. So far as we can learn our company is the first ever organized by private capital for this important work. There are, of course, many systems of water reservoirs in the United States in connection with the improvement of rivers for navigation and for commercial uses, but they are in most cases public improvements made by the National Government or by some State. The entire subject is one of peculiar interest to Wisconsin. Leaving out the waters that form international boundaries between the United States and British America, the rivers of our State are capable of producing more power than those of any State east of the Rocky Mountains. The enormous importance of this fact is not as yet well understood. Three things greatly increase its weight:

First. The discoveries in the electrical field for power storage and power transmission.

Second. Wisconsin's geographical location with reference to the great distributing commercial centers of the United States.

Third. The State's other great natural resources in timber, mineral, and fine agricultural lands.

It is more and more apparent that all this power can be and should be made available. Its development is inseparably connected with that of the State. It is important to every citizen of Wisconsin to preserve and perpetuate its most

efficient usefulness. It is not a matter for to-day, nor for this century, even. It is forever. History proves that unless the flow of rivers is governed so as to produce as nearly a uniform flow as possible, their value for navigation and for power purposes is enormously reduced. This is also highly important to those who live along the shore, both directly in minimizing danger from floods, and

indirectly in furnishing more continuous employment to labor.

The constitution of Wisconsin forbids the State from engaging in any work of internal improvement. But for this it is probable the State would itself undertake the work of establishing water reservoirs to control the flow of its principal streams. The granting of these powers to a corporation is, therefore, a necessity. The incorporators of the Wisconsin Valley Improvement Company fully realized this. They believed that to obtain the greatest efficiency absolute justice must be done to all living in or interested in the Wisconsin River Valley, and they sought to accomplish this result. It will be seen its articles of incorporation, and especially Articles VI, VIII, and IX therein, insure fair treatment to everyone who may now or may hereafter be interested in water powers upon the river, and that chapter 335 of the Laws of Wisconsin for 1907, which was enacted by our legislature at its request after very careful study and consideration, completely safeguards the interests of all citizens who are not water-power owners, while providing for State ownership in case the State at any time hereafter may have such constitutional right.

Some fear has been entertained that the establishing of reservoirs would mean the destruction of much of the natural beauty and pleasure of the lake region of northern Wisconsin. Happily, under the wise regulation of the law, these fears are wholly unfounded. In fact, it is known that, on the contrary, by holding the water in the thoroughfares and lakes at a proper level, the beauties of this region are enhanced and its pleasures made more enjoyable. This regulation of the water is properly placed with the forestry commission by the law, and this commission also regulates the construction of all dams and improvements which the company may make, and sees to it that they shall be provided with proper fishways and safeguards for the preservation of game

fish.

Winter in Wisconsin is the prolonged low-water season of the year, and it is a great advantage to the entire river system that the reservoirs be drawn down at this time and filled in the spring so as to avoid the floods of that season as much as possible. It was late in the season of 1907 when the company was organized. Some of the dams it acquired were in bad condition, and the fall of 1907 was dry. The company started the winter, therefore, with its reservoirs only partially filled, yet it took from them a steady flow of 325 cubic feet of water per second for three months, and no doubt this amount will be largely increased in the future.

Unless the National Government will undertake it until the State has constitutional power, this work of river regulation must be done by private capital, in corporations organized like ours. The Wisconsin Valley Improvement Company has pioneered the way. Every citizen of Wisconsin is interested in seeing that such organizations are promptly made on all the important Wisconsin rivers before the cost of acquiring the necessary land makes this prohibitive. This is especially true of the Chippewa and Flambeau waters, whose value to our State for water-power uses is only second to the Wisconsin River. This is not only a proper matter of State pride; it is one of sound public policy, and should not be neglected.

The Wisconsin Valley Improvement Company appreciates the fact that some mistakes are unavoidable, and that some damage may result therefrom. It will be wholly unintentional, however, and its officials will appreciate prompt information that will enable it to correct them. It asks the cooperation of everyone in this and in all things that may be helpful in its work, which, after all, is to make the Wisconsin River as useful and beneficial as possible to the

entire people of our State.

WISCONSIN VALLEY IMPROVEMENT Co., Wausau, Wis.

The CHAIRMAN. Is this a separate company here?

Mr. WHITING. I own this individually.

The CHAIRMAN. What is your capacity; what do you make?

Mr. WHITING. My capacity is about from 475,000 to 500,000 pounds a month. I run on specialties very largely, from French folio to high grades of antique law book, and such stuff as that.

The CHAIRMAN. You make here nothing but paper !

Mr. Whiting. That is all.

The CHAIRMAN. Where do you get your material?

Mr. Whiting. That is a very hard question to answer. I get my rags principally in the Chicago market. I buy my pulps anywhere that I can buy them cheapest.

The CHAIRMAN. That would be sulphite and soda?

Mr. Whiting. Soda pulp, and ground wood. I use a very little ground wood.

The CHAIRMAN. I did not know but you brought them from some

of your other mills.

Mr. Whiting. No.

The Chairman. You buy all this material wherever you can do the

Mr. Whiting. In the open market, where I can buy it to the best advantage.

The CHAIRMAN. We would like to go through the mill.

Mr. Whiting. All right, sir. There is one thing that I would like to call your attention to more forcibly this morning than ever before. Necessities always bring changed conditions. That is so in families and corporations and in every line of life that I know anything about. Now the use of cement has lessened the demand for lumber in this country in my judgment more than the amount of wood that is used in the manufacture of pulp and paper, for this reason: The use of cement in sidewalks, mill buildings, and construction of large buildings is spreading all over the country, and the grinding and cooking of wood is centered only in a few States and at a few points in those States. The growth of the timber is something that in its entirety is enormous. It is a thing that but few really appreciate and realize. I have in my yard trees that I set out in 1876 in commemoration of the Centennial, that were small trees, not to exceed, I should think, 2 inches in diameter. I measured a few of those trees a while ago and I think I have the measurements here. There is a maple tree that was put out in 1876. It now measures 5 feet 4 inches in circumference.

The CHAIRMAN. A sugar maple or a soft maple?

Mr. Whiting. A soft maple.

Mr. RYAN. How high from the ground?

Mr. Whiting. Five feet. Another one measures 4 feet and 1 inch, and another 3 feet and 9 inches. I have a birch tree that was set out three years ago. I brought three of them down in the smoking car with me from the upper mill. I set those out and one of those birch trees is 1 foot and 9 inches in circumference. It was not over an inch when it was set out. An ash tree that was like a whipstock when I rebuilt my house nine years ago measures 18 inches in circumference.

The CHAIRMAN. Of course these are not grown under forestry conditions.

Mr. Whiting. They are not grown under as good as forestry con-

ditions because they are set out in red clay soil.

The CHAIRMAN. They are grown under a great deal better than forestry conditions for rapid growth because a branching tree increases the size of the lower part of the tree many more times more rapidly than if the tree is practically without branches.

Mr. Whiting. On the other hand, if you have got 5 trees in a radius of 30 feet, for instance, and you cut out 3 of those 5 trees, and you will get more growth out of the 2 that are left than you will out of the 5 for the next five years. So the whole matter resolves itself into intelligent forestry and to a conserving of the forests by making them to be taken care of as a man in this kind of business has to take care of his business in order to perpetuate his existence.

Mr. Ryan. Is spruce wood as rapid growing as the wood that you

have talked about?

Mr. Whiting. It is admitted that the spruce wood will grow in a climate like Maine, which is about the same as our northern climate, from 6 to 9 per cent. We will have some data on this later. We hope to do something along these lines by a campaign of education.

The CHAIRMAN. I notice they use the term "railroad writing paper" in several places. What does that cover in a general way?

Mr. Whiting. It is used by the railroad service in a great many

The CHAIRMAN. Railroad writing paper is not confined to rail-

Mr. Whiting. Not to railroad use. But it is very largely used for railroads.

The CHAIRMAN. It is a class of writing paper almost like book

paper, is it?

Mr. WHITING. It is very similar to book paper, only it has more strength and also the ability to resist ink.

Mr. Norris. It is also yellow, isn't it?

Mr. Whiting. Not all. We make it pink or any color.

Mr. Norris. It is never white, is it?

Mr. Whiting. Yes; we make what we call a parchment that is white.

The committee then examined and inspected the Whiting mill and from there proceeded to Kaukauna and inspected the mill of the Union Bag and Paper Company, also the mill of the Thilmany Pulp and Paper Company.

STATEMENT OF M. A. WERTHEIMER, AT THE MILL OF THE THIL-MANY PULP AND PAPER COMPANY.

The CHAIRMAN. What do you make mostly?

Mr. Wertheimer. I would classify our business in wrappings of special character only; not as is generally known. I can not give it to you without showing it to you. Here is a wrapping of a special character, with somebody's name on it—National Biscuit Company.

The CHAIRMAN. What do you call it? Mr. WERTHEIMER. It is a wrapping paper.

STATEMENT OF C. W. SIBLEY, AT THE MILL OF THE THILMANY PULP AND PAPER COMPANY.

The CHAIRMAN. Give us your name.

Mr. Sibley. C. W. Sibley.

The CHAIRMAN. What is your business in the mill?

Mr. Sibley. I am secretary and treasurer of this company.

The CHAIRMAN. What do you make, speaking in a general way?

Mr. Sibley. It is pretty hard to say. I don't know what you would

The CHAIRMAN. You don't make any news or writing paper?

Mr. Sibley. No. The Chairman. Wrapping paper of different sorts?

Mr. Sibley. We make more wrapping paper of different sorts than anything else, I believe.

The CHAIRMAN. What do you use to make it?

Mr. Sibley. Ground wood and sulphite.

The CHAIRMAN. Do you make your own ground wood?

Mr. Sibley. We make a small percentage of it.

The CHAIRMAN. Do you make any sulphite?

Mr. SIBLEY. We do not.

The CHAIRMAN. You buy most of your material?

Mr. Sibley. Yes; by far.

The CHAIRMAN. Buy it mostly of manufacturers in this State or do you get it more from the East?

Mr. Sibley. The largest tonnage comes from this State.

The CHAIRMAN. Do you have any trouble about getting fiber and ground wood?

Mr. Sibley. Not this year.

The CHAIRMAN. You do not use very much pulp wood, then?

Mr. Sibley. Very little.

The CHAIRMAN. Where do you get that from?

Mr. Sibley. It is through the pulp wood company. I don't know where it comes from.

The Chairman. One of these supply companies, do you mean?

Mr. Sibley. Yes.

The Chairman. You probably have not given very much consideration to the question of the pulp wood supply?

Mr. Sibley. Not as much as some other people, because we are not

as vitally interested as some of the others.

The CHAIRMAN. You are not so directly interested possibly; that is, you are not using it so much?

Mr. Sibley. Not using the quantities.

The CHAIRMAN. But you would suffer just as much if the pulp wood supply gave out?

Mr. Sibley. In the same proportion; yes.

The CHAIRMAN. Do you sell your products to agents or directly? Mr. Sibley. In a general way, we sell practically all to paper

The CHAIRMAN. What is you capacity?

Mr. Sibley. It all depends on what we are making. From 20 to 30 tons a day.

The CHAIRMAN. What is your power?

Mr. Sibley. Steam and water.

The Chairman. Do you use water for anything except ground wood?

Mr. SIBLEY. Yes; we use water for running some of our beaters and some of our Jordans.

The CHAIRMAN. How about the water now?

Mr. Sibley. It is very low just now.

The CHAIRMAN. How much water are you using now?

Mr. Sibley. About 200 to 300 horsepower.

The CHAIRMAN. What percentage is that of the full power?
Mr. Sibley. The full power that we would use if we had it all, do you mean?

The Chairman. Yes.

Mr. Sibley. We have wheel capacity to use about twice that much, possibly a little more.

The CHAIRMAN. What do they mean when they say they are only

using 10 per cent of their water power?

Mr. Sibley. I can not answer that technically.

The CHAIRMAN. Is the amount you are using equal to 10 per cent?

Mr. Sibley. No; our consumption of water is very small as compared with the flow of the river. The bulk of our machinery is run by steam. All of our paper machines are run by steam.

The CHAIRMAN. Is there anything else you want to suggest?

Mr. Sibley. I have no suggestions to make. Mr. Ryan. Do you use any imported pulp?

Mr. Sibley. We have used a very little in an experimental way.

STATEMENT OF MR. F. J. SENSENBRENNER AT THE KIMBERLY MILL, AT KIMBERLY, WIS.

The CHAIRMAN. Tell us what the mill is and what you do here. Mr. Sensenbrenner. This is the Kimberly mill of the Kimberly-Clark Company. It produces 52 tons of sulphite pulp per day, 50 tons of book paper per day, and 9 tons of coarse wrapping paper per day.

The CHAIRMAN. You use some ground wood, of course?

Mr. Sensenbrenner. We use some ground wood here, yes, sir, and sulphite.

The CHAIRMAN. Does that come from some of your other mills?

Mr. Sensenbrenner. The ground wood does; and old paper.

Mr. RYAN. How long has the mill been in operation?

Mr. Sensenbrenner. The sulphite end of the mill was built in 1889 and rebuilt about three times since. We built a print-paper mill here in 1890 which was destroyed by fire in 1892, and in its place we built a book-paper mill in 1904.

The CHAIRMAN. Do you use any rags in your book paper?

Mr. Ryan. Does the Kimberly-Clark Paper Company make print paper anywhere?

Mr. Sensenbrenner. It does at Niagara, Wis., on the Menominee

River.

The CHAIRMAN. Now, if you please, we will go through the mill. The committee then examined and inspected the Kimberly mill, at Kimberly, Wis.

MENASHA HOTEL, Menasha, Wis., September 17, 1908—9 a. m.

STATEMENT OF MR. CHARLES ROBINSON SMITH.

The CHAIRMAN. Give us your full name.

Mr. SMITH. Charles Robinson Smith.

The CHAIRMAN. Your company?
Mr. Smith. The Menasha Wooden Ware Company.

The CHAIRMAN. The Menasha Wooden Ware Company is one of the largest, if not the largest, wooden-ware companies in the world, I understand from others?

Mr. SMITH. I think in that line, possibly.

The CHAIRMAN. In connection with the Menasha Wooden Ware Company, are you fairly conversant with the forest resources of your Northwest?

Mr. Smith. I think so.

The CHAIRMAN. Will you, in your own way, give us such information as you can, especially in connection with the forest resources, and especially in connection with the spruce and hemlock forests?

Mr. Smith. I know very little about spruce. I know a little some-

thing about hemlock.

The CHAIRMAN. Whatever information you can give us we would

be greatly obliged for.

Mr. SMITH. I should think, as to the hemlock resources of the State, that a good criterion to go by would be estimates that have been recently made by the Wisconsin and Northern people, who are building a road from Menasha to North Crandon to connect with the Soo. This road is now nearly completed between Shawano and North Crandon. By actual estimates through eight townships, including the Menominee Indian Reservation and the townships north of the Menominee Indian Reservation to North Crandon, there is a little over a billion feet of hemlock, 6 miles each side of the tracks.

The CHAIRMAN. What distance is that?

Mr. Smith. Six townships, or what would be 36 miles the way the crow flies. Probably about 45 miles by railroad.

The CHAIRMAN. Is that virgin forest?

Mr. Smith. It is practically virgin forest and is probably the best hemlock region in the State. I do not know of any large areas like that that have been estimated. This is actually estimated and through these townships there is a little over a billion feet of hemlock and about 2 billion feet of other timber, showing that in that territory it is about a third hemlock.

The CHAIRMAN. What other timber is there in the State, hemlock? Mr. SMITH. I should think in the entire State there would be between 25 and 50 billion of hemlock. Not millions but billions. Located mainly on the Chippewa River and branches, the Wisconsin River and branches, the Wolf, Oconto, Peshtigo, and Menominee rivers and branches.

The CHAIRMAN. In cutting this timber on this new road how is it

likely to be cut, clean or just cut 12 or 14 inch diameter trees?

Mr. Smith. It will be cut clean where it is owned by private individuals and cut under forestry methods on the Menominee Indian Reservation, because the cutting on the reservation is now left to the forestry department.

The CHAIRMAN. Is it the Menominee Indian Reservation where Congress last winter provided for the construction of sawmills?

Mr. Smith. Yes, sir.

The CHAIRMAN. For the nominal purpose of cutting up the dead and down timber?

Mr. Smith. And teaching the Indians how to cut lumber, etc.

The CHAIRMAN. I held up the bill for a long while. Mr. SMITH. You ought to have held it up entirely.

The CHAIRMAN. I thought so myself, but the House ran over me once on a suspension of the rules and then I quit on that. Of course, what we want to get at is the probable future available supply of pulp wood in connection with the demands of timber for other lumbering purposes, the supply in Wisconsin, the supply in the Northwest in connection with the necessity of obtaining supply from across the line in Canada. You have not had occasion to study the pulp wood question to any extent except in connection with your own business?

Mr. Smith. Yes, I have studied it more or less because I have bought timber in the West, in Canada, and in Minnesota.

The CHAIRMAN. Give us your views and any information which

you think you have available on that question.

Mr. Smith. As I said, I am not very well posted on the spruce of Wisconsin and Minnesota, but there is more hemlock standing in the State than any other timber, in my opinion. Possibly there may be more maple, but I think maple and hemlock are the two timbers that are commonest.

The CHAIRMAN. Do you use any hemlock in the wooden-ware busi-

nessi

Mr. Smith. No.

The CHAIRMAN. Do you use maple?

Mr. SMITH. No, but our company own probably a hundred thousand acres of hardwood lands throughout the State on which there is maple, hemlock, and all kinds of timber.

The Chairman. In obtaining your own supply of timber, do you

cut from your own land yourself?

Mr. Smith. Yes, sir. We cut the maple, hemlock, and other stuff unless we sell the logs and the lumber.

The CHAIRMAN. I do not quite understand.

Mr. SMITH. For instance, we log about 40,000.000 or 50,000.000 feet a year. We do not use maple or hemlock. We either sell these logs or manufacture the hemlock logs into lumber for the market.

The CHAIRMAN. Do you supply pulp wood?

Mr. Smith. Occasionally sell some pulp wood. Yes, sir.

The CHAIRMAN. But not as a regular thing.

Mr. Smith. Well, we generally sell from 4,000,000 to 5,000,000 feet

of hemlock every year.

The CHAIRMAN. Take it for instance, last season or probably the ensuing season where you lumber, are you liable to convert your logs into lumber or pulp wood, your hemlock logs?

Mr. SMITH. That will depend upon the price.

The CHAIRMAN. That is what I suppose, but what is the present situation?

Mr. Smith. With us, not being strictly in the lumber business, as a great many others are, we prefer to sell our logs rather than to make any hemlock lumber.

The CHAIRMAN. You sell your logs to the mills, do you?

Mr. Smith. Yes, yes, sir. To the pulp mills.

The CHAIRMAN. So that a large share of your hemlock goes into pulp wood.

Mr. Smith. It has for the last four or five years.

The CHARMAN. Just at present lumber is dull, isn't it?

Mr. Smith. Very dull, yes, sir.

The CHAIRMAN. The last year there has been a greater demand

for pulp wood than for saw logs, hasn't there?

Mr. Smith. For two or three months, not any. I think the demand for pulp wood ended about September 1. They wanted to cut me down in the price about then anyway.

The CHAIRMAN. Have you any judgment as to the probable future

supply of pulp wood for these mills in this part of the State?

Mr. Smith. I think I have.

The CHAIRMAN. Would you object to giving us the benefit of that? Mr. Smith. As long as they can use hemlock they will never be out of wood.

The CHAIRMAN. You think there is a plentiful supply of hem-

lock?

Mr. Smith. I don't think at all. I know there is.

The CHAIRMAN. That would depend, of course, upon how much of it is used for saw logs. If you cut it off clean for lumber, how long will it last?

Mr. Smith. They do not cut it off clean for lumber. The pulp mills use a smaller grade and poorer grade of timber than the sawmills, consequently they get more in 40 acres for pulp wood than for saw logs, ordinarily.

The CHAIRMAN. Do they cut it very clean or not?

Mr. Smith. They do cut it very clean.

The CHAIRMAN. How long does it take for that to reproduce, or

does it reproduce?

Mr. SMITH. It reproduces, but in the original stand of hemlock, if it is cut into, the wood dies; but take a section, for example, as there is along this new road, that timber is growing probably 4 or 5 per cent every year.

The CHAIRMAN. If that is cut off, is that the end of the hemlock

in that locality?

Mr. Smith. Ordinarily, because the lands are good for agricultural lands. It is more profitable to sell the land to farmers than to raise

The CHAIRMAN. Then why do you think there is an inexhaustible

supply of hemlock there; won't they reach it all after a while?

Mr. SMITH. Not in the next fifty years, I think. There is a very erroneous idea, especially by Pinchot and his people, that the timber is likely to disappear in a short time.

Mr. Ryan. Do you base your calculation on the output and the

consumption of pulp wood by the Wisconsin mills?

Mr. Sмітн. Yes, sir. And the sawmills that use hemlock.

The CHAIRMAN. During the last few years has there been an increased use of hemlock for timber purposes?

Mr. Smith. Yes; there has, because the pine is getting less every

year. The cut of pine is getting less every year in Wisconsin.

The CHAIRMAN. Is that use of hemlock likely to increase in the

future by the sawmills?

Mr. Smith. That depends largely upon the price of southern lumber. If the price of southern lumber remains as it has, I think there will be less cut than otherwise. Southern lumber being better than hemlock lumber, and being shipped in at a low price at the present time, I think there will be 25 per cent less hemlock cut by the sawmills this winter than there was last, and possibly one-third less.

The CHAIRMAN. Is there an inexhaustible supply of pine in the South?

Mr. Smith. It grows very rapidly. They can cut it off down there about every twenty years. Some of the best forests in the South were cotton fields during the war. My men down there have found cannon right in the forest where the trees were 2 or 3 feet in diameter,

The CHAIRMAN. I should be inclined to think that that was very

nnnsnal.

Mr. SMITH. That is the case, though.

The CHAIRMAN. I have been in the South a good deal and unfortunately own some southern land.

Mr. Smith. This cut of timber that I have reference to was cotton-

wood that grew up since the time of the war.

The CHAIRMAN. That grows very rapidly, of course. Not long leaf or other pine?

Mr. Smith. No; it does not grow one-half as fast as cotton wood

The CHAIRMAN. How do the pulp mills here get most of their pulp wood, as far as you know? Do they buy it through companies like yours, or largely through one supply company that they have organized? Do they deal directly with your company or individually. more or less?

Mr. Smith. Some of them, yes, sir.

The CHAIRMAN. You furnish that f. o. b. where?

Mr. SMITH. Where it is loaded on the cars or delivered on the river. The CHAIRMAN. Do they bring more or less of it down by water, or down the river?

Mr. Smith. Yes; yes, sir. We sold 5,000,000 feet on one river last

year to one mill.

The CHAIRMAN. You spoke of the hemlock forests of Wisconsin. Are you familiar with the forests of Minnesota and the Northwest and Canada?

Mr. Smith. Yes, sir; particularly Minnesota. The Charman. What about the Minnesota forests?

Mr. Smrth. I have bought pine there during 15 or 20 years. I did not figure very much on the spruce. I noticed that in the pine forests nearly every 40 acres is covered with more or less spruce, although I did not buy it for the spruce. That is in northern Wisconsin.

The CHAIRMAN. Are you cutting any of that? Mr. Smith. No, sir, not at the present time.

The CHAIRMAN. When you cut that, is the spruce used for making lumber?

Mr. Smith. It is usually sold to paper mills.

The CHAIRMAN. Have you any estimate as to the amount of available forest in Minnesota?

Mr. Smith. No, sir.

The Chairman. Do you know whether or not anybody else has

any knowledge on that subject?
Mr. Smrth. Yes, there is a man that is employed by the State of Minnesota; I do not remember his name. He is not the State forester, but he answers that purpose. I think he is thoroughly posted.

The CHAIRMAN. He is under the forester?

Mr. Smith. He is employed by the State. The State of Minnesota has a large amount of land, and he answers the purpose, but that is not his title. I think he is very well posted.

The Chairman. They have just compiled more or less information up there for the benefit of the Department of Commerce and Labor.

How about the forests in the far Northwest?

Mr. SMITH. What State, sir?

The CHAIRMAN. Washington and Oregon.

Mr. Smith. Of course, there are immense forests there.

The CHAIRMAN. Are you familiar with the forestry situation there!

Mr. Smith. Yes, sir.

The CHAIRMAN. Is there much pulp wood up there?

Mr. Smith. An inexhaustible supply.

The CHAIRMAN. Spruce? Mr. Smith. Yes, sir.

The CHAIRMAN. Hemlock?

Mr. Smith. Yes, sir.

The CHAIRMAN. How about across the line out there?

Mr. Smith. You mean in British Columbia?

The CHAIRMAN. Yes, sir.

Mr. Smith. Just the same; the same condition exists there, only more so. But the stand of timber is so much thicker on the coast than in Wisconsin, or ever was in Wisconsin, that there is a good deal more timber there than people suppose. It is not unusual to find 100,000 or 200,000 feet to the acre, whereas you will find about that amount on 40 acres in Wisconsin. I think the timber is growing on the coast two or three times as fast as it is being cut at the present time, notwithstanding the reports of the Forestry Department of the Gov-

The CHAIRMAN. What can you tell us about the timber forests right across Lake Superior?

Mr. Smith. In Ontario?

The CHAIRMAN. Yes. Mr. Smith. There is quite a good deal of spruce there. There is a great deal of spruce in Canada all the way from Quebec to Winnipeg.

The CHAIRMAN. Are there spruce forests along the north shore of

Lake Superior?

Mr. Smith. More or less.

The Chairman. Would those forests be available, taking everything into consideration from the freight point of view and shipping point of view, for the pulp mills in Wisconsin?

Mr. Smith. I would not think they would be very available except along the lake. I should think the transportation charges back would be too great as long as timber exists in Wisconsin and Minnesota. I would like to testify right here that I have no interest in any paper or pulp mill, and never did have any.

The CHAIRMAN. We asked you to appear simply because you are

supposed to be a mine of information.

Mr. Sмітн. I don't know about that. The Chairman. Have you any judgment or information as to the effect of taking the tariff off of timber?
Mr. Smith. I think I have.

The CHAIRMAN. Would you give us that?

Mr. SMITH. I think that it would accrue to the benefit of the bulk of Canadian stumpage owners. As far as I personally am concerned, it would help me to take it off, because I have large holdings in Canada.

The CHAIRMAN. What class of timber?

Mr. Smith. Spruce.

The CHAIRMAN. Where is that?

Mr. SMITH. It is about 150 miles northwest of Winnipeg on the Saskatchewan River.

The CHAIRMAN. Is that a spruce country up there?

Mr. Smith. Yes. Large spruce. I bought it for lumber. The Chairman. Is there a great deal of forest up there?

Mr. Smith. Quite a little; yes, sir.

The Chairman. How far does that spruce forest run in Canada? Mr. Smrth. More or less along the Saskatchewan River away to the headwaters, the Rocky Mountains. However, the bulk of it is in

the southern part, toward Lake Winnepeg.

The CHAIRMAN. How far west does this Ontario spruce forest run? Mr. Smith. I think there is more or less spruce all the way through to the Rainy River.

The CHAIRMAN. Is there anything else?

Mr. SMITH. Unless the gentlemen here would like to have me give some other information. Do you think of anything else, Mr.

Whiting?
Mr. Whiting. I do not think of anything else. I sent this down last night and this might refresh your memory. [Referring to book of photographs along the new railroad spoken of.]

Mr. SMITH. That is taken from every section on that road.

Mr. Whiting. About what percentage is hemlock?

Mr. SMITH. There is about one-third by actual estimate of hemlock along that road from the Indian Reservation to Crandon. Three billion feet and about 1,000,000,000 feet of hemlock. I think I stated

Mr. Whiting. How far does that road run through that virgin forest?

Mr. Smith. About 6 townships besides the Menominee Reservation. That would be 8 townships.

Mr. Whiting. About what width of territory?

Mr. Smith. The estimate covered 6 miles on either side. would be 12 miles.

The CHAIRMAN. Does that virgin forest still extend on each side of that?

Mr. Smrth. Yes; surely.

The CHAIRMAN. How far, do you know?

Mr. Smith. I should think it extended 12 or 15 miles either side. Then, of course, we come to the Northwestern road and we would figure that that would be tributary to another railroad.

The CHAIRMAN. Has that ever been touched at all, this forest? Mr. SMITH. To a small extent. The pine has been cut out.

The CHAIRMAN. The big pine?

Mr. SMITH. All pine, big and small.

Mr. Whiting. There wasn't very much pine in it.

Mr. Smith. Yes; a good deal of pine.

The CHAIRMAN. Is there any spruce in it?

Mr. Smith. Yes, sir; about the same amount of spruce as the general average of timber through the State.

Mr. Whiting. These photographs were taken on every section.

You can see the nature of the timber.

Mr. Smith. If you are not familiar, I can tell you which the hemlock trees are.

The CHAIRMAN. There is some nice hemlock here.

Mr. Whiting. That is taken not for a show book but simply to know just what we have got.

Mr. Smith. Mr. Whiting is largely interested in the road as I am.

Mr. Whiting. A very small interest.

The CHAIRMAN. I think you said that you were not familiar with the situation concerning spruce wood in the State.

Mr. Smith. Not as to estimates or general details. Mr. Whiting. I would like to ask Mr. Smith if he is acquainted with the conditions on the new road of the Wisconsin Central going from Ladysmith to Superior?

Mr. Smith. Yes.

Mr. Whiting. Does that open up any new timber?

Mr. SMITH. Yes; but not as large as there would be on the Wisconsin and Northern.

Mr. Whiting. Perhaps five or six years' supply in there.

Mr. Smith. A great many more years than that. The way I happened to be very well posted, I started buying timber when I was 16 and sort of kept at it, and my observation is that there is a great deal more timber than the best of lumbermen think there is in Wisconsin and every other State. That is illustrated by the cut of white pine in Maine last winter, which was larger than the State of Michigan. People supposed that all the white pine in Maine was cut years and years ago.

The CHAIRMAN. Larger than the cut last year in Michigan?

Mr. Smith. Yes, sir.
The Chairman. That, of itself, shows in a way the fact that the timber supply will give out after a while. I suppose the white pine

forests of Michigan were the finest in the world, were they not?

Mr. Smith. Yes, sir; but Maine is supposed to have been cutting nothing but spruce for a great many years. Pine was supposed to be played out twenty years ago.

The CHAIRMAN. They are cutting the young pine there, aren't

thev?

Mr. Sмітн. They are new fields—smaller pine. Mr. Ryan. Was the cut in Michigan very large last year?

Mr. SMITH. Not very large. I don't remember the exact figures. A good many million.

The CHAIRMAN. Looking at these photographs along the line of this new road, most of this is hardwood timber.

Mr. Sмітн. It will run about one-third hemlock.

The Chairman. It doesn't look it, not being a very great judge myself.

Mr. Whiting. I would be glad to take the committee through that forest for 34 or 35 miles.

Mr. Smith. It would give them a better idea of the timber in Wisconsin than anything else. You can take the railroad right through. It is the only place I know of where you can go in the cars and see the stand of timber which has not been cut out. Take the train from Shawano through the Indian reservation.

The CHAIRMAN. Is this road open now!

Mr. SMITH. Yes: it is running. You ought to go up there and see how they are cutting logs on the Indian reservation.

The CHAIRMAN. I was very bitterly opposed to that legislation.

Mr. Smith. If you take them up, wait until next week and I will go with them.

Mr. Whiting. If we can hold them here, we will do it.

Mr. SMITH. Give them a special train.

Mr. Whiting. Yes: a switch engine and a caboose.

Mr. SMITH. You spend three hours in the timber and it will give you a better idea of the forests of Wisconsin than anything else. If you go and see trees and see them growing it will give you a better idea than all the interviews you can have in a month.

The CHAIRMAN. We are going into the timber some place, through

the virgin forest.

Mr. Smith. I do not know an easier way than to go in there. There

you can just take a train.

Mr. RYAN. You speak about the supply in Wisconsin being inexhaustible.

Mr. SMITH. Comparatively speaking.

Mr. RYAN. What percentage of the pulp wood cut in the country is cut in Wisconsin?

Mr. Smith. That I don't know. I am not in the pulp or paper business.

The CHAIRMAN. They thought at one time that the supply of white

pine in Wisconsin and Michigan was inexhaustible.

Mr. Smith. That is a good many years ago. It lasted about thirty or forty years longer than people figured on. I can remember thirty years ago that people used to say on the Wolf River that there would be about one or two years' cut. This year, of logs altogether, 35,000,000 came down Wolf River.

The CHAIRMAN. If you believe that the supply of wood or forest in the United States is sufficient to supply the demand for wood products in the future, why do you protect yourself by purchasing land in

Canada ?

Mr. Smith. I am just buying that for speculation, as I do in Idaho, Washington, and other places; nothing else. I think my factory, if the timber could be cut in forestry methods, would have an inexhaustible supply. It is not proper to cut in forestry methods in Wisconsin because the land is too valuable, and furthermore the taxes are too high. If timber was taxed like farm crops, only tax the land and tax the timber after it is cut, then people would hold their timber longer.

The CHAIRMAN. There is practically no conservation of forest

methods adopted in this State then?

Mr. Sмітн. The State of Wisconsin has set aside some few areas of timber, but no private individual or corporation could afford to do it on account of the taxes.

The CHAIRMAN. What is the basis of the taxation of the timber

lands here?

Mr. Smith. I would think on an average it was 2 or 3 per cent on

The CHAIRMAN. Value of standing timber?

Mr. Smith. Yes, sir; take the land and timber together.

The CHAIRMAN. How long since they commenced to use these for-

est lands for agricultural purposes?

Mr. Smith. They have done it for the last hundred years, that is, the hard-wood land. The pine lands are fairly good for farms. You con see them if you go to Shawano. There it used to be pine, and you will see very good farms around Shawano.

The CHAIRMAN. That is a recent thing, isn't it?

Mr. Smith. No. You will see farms up there that have been cul-

tivated for twenty-five years.

The CHAIRMAN. I was under the impression that it was only in recent years that they were using the old pine-land ground for farm

purposes to any great extent.

Mr. Smith. I think I can explain that. The bulk of the pine in Wisconsin was interspersed with hard wood. That makes very good land. You take in northern Michigan and some places in northern Wisconsin where it was nothing but a stand of pine, and that land is not very good for farm land. Where it is mixed with hard wood and hemlock the land is very good for cultivation.

The CHAIRMAN. I suppose the Government is practicing forestry

methods on the Menominee Indian Reservation, or proposes to?

Mr. SMITH. They propose to do so; yes, sir.

The CHARMAN. I believe they are endeavoring to educate the Indians in forestry methods as well as to furnish them occupation.

Mr. Smith. Theoretically that is what they are doing, but practically they will never do it.

STATEMENT OF JOHN STRANGE, OF THE STRANGE PAPER COMPANY.

Examined by the chairman.

The CHAIRMAN. Will you give us your name?

Mr. STRANGE. John Strange.

The CHAIRMAN. Your company?

Mr. STRANGE. One of our companies is the Strange Paper Company.

The CHAIRMAN. Located where?

Mr. STRANGE. At Menasha. The Chairman. You are, I believe, the Republican candidate for lieutenant-governor of the State?

Mr. STRANGE. Yes, sir; I am.

The CHAIRMAN. Will you give us any information you have on the

question of the pulp-wood supply, future and present?

Mr. STRANGE. My judgment is so inflated and so exaggerated as compared to my associates in the business that I am almost delicate about expressing it. Personally, I believe that the United States possesses four times as much timber for pulp-wood purposes as it will ever need with any conservation worth calling conservation. As an illustration of the lack of knowledge in reference to the supply of timber, I would like to cite an instance: On the Palouse River, running through Idaho and parts of Washington into the celebrated Palouse fruit and wheat belt, some years ago I had an option for the

purchase of what seemed to be all the available supply of lumber on that river, and it was estimated that the timber would cut about two hundred millions. I permitted the option to lapse and the Weyer-haeuser syndicate went in there and bought it and two years ago they owned 5 billion feet of timber and built the greatest sawmill in the world on the Palouse River.

The CHAIRMAN. The 200 million had developed into 5 billion?

Mr. STRANGE. They bought 5 billion feet on the river and own it to-day or did own it until the time they began to cut it. I claim there are 25 to 50 billion feet of paper timber in the States of Washington and Oregon, more than enough to supply all the needs for paper making for all time in those two States alone.

Mr. Ryan. All the needs of the United States? Mr. STRANGE. All the needs of the United States.

The CHAIRMAN. What would happen to the paper mills of the East if they were obliged to depend on pulp wood that came from Oregon and Washington?

Mr. STRANGE. In my judgment, ultimately the great manufacturing paper interests of the United States will be situated in the West

and not in the East.

The CHAIRMAN. That would mean shipping paper east from Oregon ?

Mr. Strange. By water, supplying New York City and all the eastern market direct from the sea coast on the Pacific.

The CHAIRMAN. That is, to ship the paper down the Pacific coast?

Mr. Strange. Through the new canal ultimately. The CHAIRMAN. Take it to the sea coast and ship it back East?

Mr. STRANGE. Take it right on the vessels and unload it on the eastern seaboard where it is needed.

The CHARMAN. Unfortunately, all the newspapers are not published on tide water.

Mr. Strange. Raw material. Ship the paper to New York and supply the demand from there. Of course, there is a good deal of information that I consider almost suicidal and almost criminal to disclose at this time, because there is a mania for butchering timber and always has been in the United States. The desire to accumulate great fortunes rapidly is destroying the forests. That has been the mania that has destroyed the forests of Minnesota and Wisconsin and Michigan to a large extent. It is almost criminal in its character. I have spent a month with the greatest timber man in the United States, at a time, going through the forests of the West, and when I had this option for the purchase of this Palouse country timber, he says, "John, you are crazy; there isn't any timber on that river." He visited me about a month ago and I said, "Mr. Hewitt, what do you think about the Palouse territory, with the Weyer-haeuser people owning to-day 5 billion feet, and you didn't think there were 200 million on the river? And yet you are the best informed man in the United States on the question of timber supply." He is worth \$15,000,000 or \$20,000,000 and has spent his entire life in the forest nearly.
The CHAIRMAN. Who is this?

Mr. STRANGE. Henry Hewitt, jr., of Tacoma. They cut in one of their mills 125 million a year. There is not less than 25 billion of the finest hemlock that ever grew in the world in the States of Washington and Oregon alone. Twenty-five billion feet. Practically worthless. It can be bought to-day and should be bought by the Government or some great interest that would conserve it, and there is enough to supply all the paper mills need for centuries.

The CHAIRMAN. Who owns that now?

Mr. Strange. That is owned by the Weyerhaeuser syndicate.

The CHAIRMAN. Where did they get it?

Mr. STRANGE. From the Northern Pacific Railroad Company, and they got it from the Government. The Government made the mistake of its existence in giving it to them. If I was asked my opinion, I should advise the repurchase by the Government of the timber owned by the Weyerhaeuser people and the conservation of the timber.

The CHAIRMAN. How long do you think it would be after the Government purchased it before you gentlemen in the business who are using timber would insist and obtain the assistance of others in pro-

claiming that natural resources were made to be used?

Mr. Strange. I do not take that stand at all. Men should be patriotic in these matters and not selfish. Personally, I have no desire to denude the forests myself at the expense of coming generations. I think that spirit should become generally manifested. It is murderous to permit the practices that have existed permitting one corporation to go into possession of hundreds of thousands of acres of land at a nominal cost with no thought in it except to butcher it. It is the most vicious system that ever was permitted to exist in my judgment.

Mr. RYAN. If people generally thought as you do, there wouldn't

be any necessity of investigations of this character.

The CHAIRMAN. What a man thinks and what a man does under the existing law have no relation to each other.

Mr. Strange. There are men who consider the coming generations to some extent.

The CHAIRMAN. They have to consider competition.

Mr. Strange. I have positively refused, time and time again, to disclose information that I have. I know a State that has as good spruce as lies out of doors that has never been mentioned in connection with this investigation. It lies there to-day, and the policy of the Government in insisting on its being cut within 2 or 3 years is one of the most vicious things I know of. Montana itself has one of the most available and valuable supplies of spruce timber of any State in the Union, and water power and opportunities of developing a great industry, and yet the Government, selling that land, insists on your cutting it off about as fast as you can get in there and butcher it, with, of course, some show of conservation.

The CHAIRMAN. What land does the Government sell out there? Mr. Strange. They sell the timber, and insist that you shall cut it

off, within four or five years, a certain way.

The CHAIRMAN. Is that the Forestry Bureau that is doing that?

Mr. Strange. Yes. sir.

The CHAIRMAN. They sell what timber?

Mr. Strange. Spruce and pine and fir, and all timber out there.
The Chairman. They sell only the timber that is to be cut, that is marked?

Mr. Strange. They sell that. Of course, the conservation is reasonable, but why should they compel you to cut off ten or fifteen

million under perhaps adverse commercial conditions? Why hurry it?

The CHAIRMAN. I am only trying to get the information.

Mr. STRANGE. The Weyerhaeuser syndicate is obliged to cut that five billion feet off within six or seven years, and they built a mill cutting 750,000 feet of lumber per year, and butchered that timber, and they have got to do it to-day, notwithstanding the depressed lumber condition.

The CHAIRMAN. Why do you use the term "butcher?"

Mr. STRANGE. Because it is nothing but butchery. Why should a man in felling a big tree deliberately destroy half a dozen small sap-The CHAIRMAN. Does he destroy them?

Mr. Strange. Yes, sir. I have not been there, but I have had a man, who is one of the best lumbermen that I know of anywhere, and he criticises the Department very severely. I do not know of my own knowledge except what he tells me, and that is that the interests of the Government are not conserved there as they should be, conscientiously I mean.

The CHAIRMAN. They have people there for that purpose? Mr. Strange. Yes, sir.

The CHAIRMAN. Under the Forester?

Mr. STRANGE. Yes, sir.

The CHAIRMAN. I am afraid your man is prejudiced. Mr. Strange. No; he is absolutely a fair-minded man.

The Chairman. I presume most of these gentlemen who are representing the Government out there are young foresters, and they may not be quite as practical as they will be when they become older and

more experienced.

Mr. STRANGE. That is true. The conservation on the part of Minnesota probably is the best of any place. They have got an immense supply of pulp wood there and they have an admirable conservation law. By the way, you asked Mr. Smith a question that I might answer you. The Arpens, of Grand Rapids, Wis., own a large quantity of the Arpens, of Grand Rapids, which was a large quantity of the Arpens, of Grand Rapids, which was a large quantity of the Arpens, of Grand Rapids, which was a large of the Arpens, of Grand Rapids, which was a large of the Arpens, of Grand Rapids, which was a large of the Arpens, of Grand Rapids, which was a large of the Arpens, of Grand Rapids, which was a large of the Arpens, of Grand Rapids, which was a large of the Arpens, of tity of spruce in Minnesota, and Mr. W. D. Conner has about 15,000 acres of spruce lands in Minnesota, and both of them are very familiar with lands generally in Minnesota. You can reach them both at Grand Rapids.

The CHAIRMAN. Do you use any wood in your mills?

Mr. Strange. Yes, sir.

The CHAIRMAN. What kind of wood?

Mr. Strange. We use wood pulp, a coarse grade of wood. We use pine pulp.

The Chairman. Do you make your own wood pulp?

Mr. STRANGE. No, we buy that.

The CHAIRMAN. Do you use any pulp wood? Mr. STRANGE. No, not in this Strange mill.

The CHAIRMAN. Do you use pulp wood in any of your mills? Mr. Strange. I have an interest over here in this mill on the island that uses pulp.

The CHAIRMAN. Do you know how they buy their pulp wood? Mr. STRANGE. They buy it from the farmer and the store men direct.

The CHAIRMAN. What is the name of the company?

Mr. STRANGE. The Wood Supply Company. We have no connection with that.

The CHAIRMAN. I want to get somebody at some time to testify as to that. The Wood Supply Company ought to have a pretty fair

knowledge of the present available supply of pulp wood.

Mr. Strange. I do not think any one can have a knowledge unless he is a practical lumberman and an estimator of timber, such a man as Mr. Smith or somebody who has spent a great deal of time with a view of ascertaining the standing timber, and not for the purpose of buying pulp wood.

The CHAIRMAN. Men who are in the business of buying pulp wood would have considerable knowledge as to the available supply of

pulp wood?

Mr. Strange. Yes, the amount offered on the market.

The CHAIRMAN. And as to the methods of picking that up?

Mr. Strange. Yes.

The CHAIRMAN. How much of it comes from the farmer who cuts

off his own wood lot?

Mr. STRANGE. Yes, a great many country merchants buy from the farmers and will contract. For instance, we have at the mill probably half a dozen country merchants who will agree to furnish from 1,000 to 2,000 or 3,000 or 4,000 cords per year.

The CHAIRMAN. Is that wood generally wood that is cut by the farmer for the purpose of clearing his land for agricultural pur-

Mr. Strange. Yes, generally. Of course he conserves that for an income. Perhaps for ten years he will cut off 25 or 30 acres per year and keep that as an investment for a number of years.

The CHAIRMAN. But is it the purpose of the farmer to eventually

get his land cleared for agricultural purposes?

Mr. Strange. Yes, sir.

The CHAIRMAN. His ground is worth more to him to raise annual

crops on than to raise tree crops?

Mr. STRANGE. Yes, sir. Land all over that cut-over country is selling to-day at \$50 to \$60 or \$70 an acre. It is one of the best dairy and hay countries in the United States.

The CHAIRMAN. You do not consider it practical, I suppose, to raise forests on land worth \$50 or \$60 an acre, or even \$15 or \$16 an

acre, do you?

Mr. Strange. Well, I don't know as to \$15 how that would figure out. I would have to figure some on that, but there is so much land in Wisconsin that is not valuable for agricultural purposes that it has developed this large poplar so rapidly that I think it will be a source of profit to everyone of those cheap landowners to cultivate the poplar.

The Chairman. When the tariff was first put on mechanical pulp, especially at the time of the McKinley tariff bill, when the question of the tariff on wood pulp was up, the principal argument that was made, I think, before the Ways and Means Committee was that we

ought to encourage the raising of poplar.

Mr. Strange. A very good argument.
The Chairman. But I noticed that although that argument prevailed the consumption of poplar for the purpose of making wood pulp has been decreasing.

Mr. STRANGE. Yes.

The CHAIRMAN. Instead of increasing.

Mr. Strange. Yes.

The CHAIRMAN. Is that because there is no demand for the soda pulp?

Mr. Strange. No.

The CHAIRMAN. I mean not sufficient demand.

Mr. STRANGE. There is no soda pulp manufactured in the Northwest. I don't know why.

The CHAIRMAN. There is plenty of poplar.

Mr. STRANGE. In the South they manufacture that soda pulp at a less price a good deal than the North can, because of their immense supply of the cottonwood and poplar in the South. There is a very large mill in North Carolina.

The CHAIRMAN. The greatest production of soda pulp is in Penn-

Mr. Strange. The largest mill; yes.

The CHAIRMAN. The large factory to which you refer is a new one in North Carolina?

Mr. STRANGE. There are two there, I believe, and one uses about 600 cords of wood a day.

The CHAIRMAN. I think that does not use poplar very much.

Mr. Strange. It can use poplar. Of course Muncie uses poplar altogether. I do not know that it is absolutely necessary to have spruce to make print paper with. Many of our men now are finding they can grind other grades of wood more satisfactorily. There is no reason why other wood can not be utilized.

The CHAIRMAN. I suppose it is a self-evident proposition that it is

not necessary to have spruce to make paper?

Mr. STRANGE. That is true.

The Chairman. But the question is, whether it is necessary to

have spruce to make cheap news print paper.

Mr. Strange. I do not think so. I shipped some ten years ago 16 cords of four different kinds of wood from Washington and put it into pulp here as a test. I have been west several times with a view of doing some development along those lines. I wanted to make an experiment as to white fir, which is almost a worthless wood out there, and I shipped 4 cords of that and it made very good pulp. It has practically no value all through the West, yet it is good papermaking pulp. The fir out there made splendid pulp contrary to the expectation of everybody, except Mr. Hewitt, who insisted upon my putting it in. He says, try it; and really it was a very good ground wood. Of course we don't know anything about the chemistry of paper making or the treating of wood chemically in this country. It requires some ability and thought and some study along those lines before other wood can be utilized. It is easy to make paper of spruce. It is the best wood there is. Anybody can make print paper out of spruce wood.

The CHAIRMAN. In your judgment, is there a sufficient supply of pulp wood or timber that can be used for the production of pulp wood in Wisconsin and Minnesota to furnish pulp wood for the

pulp-wood mills in these two States?

Mr. STRANGE. I would include a Western State in that, and I think timber can be shipped from Montana here advantageously. I do not see any reason why a rate can not be made from Montana to justify the delivery of wood here at a reasonable cost.

The CHAIRMAN. Is there any large amount of forest in Montana?

Mr. Strange. Yes.

The CHAIRMAN. Good forest?

Mr. Strange. Excellent, the finest out of doors.

The CHAIRMAN. Do you know what the freight rate is?

Mr. Strange. The rate has not been fixed. Over this end on this side of the divide the rate ought to be low enough and it could be made low enough to justify shipping that wood to Minnesota and Wisconsin.

The CHAIRMAN. They have more or less water power in Montana?

Mr. STRANGE. Excellent water power.

The CHAIRMAN. How long do you think it would be if they shipped pulp wood by rail from Montana to the wood-pulp mills in Wisconsin before they commenced to manufacture it with the aid of the

water power out there?

Mr. Strange. There are questions involved in that that are difficult to answer. If you will let me divert a little from the paper business, I will cite an instance. Six years ago a large sash and door factory of Oshkosh went out of business, practically because they could not see any raw material supply, and they thought that doors from California pine and fir could be made at less cost on the Pacific coast and supplied to the eastern trade than Wisconsin could make them and ship the raw material here and manufacture and send to the consumer in the East. My son-in-law happened to be residuary legatee of this particular property and I prevailed upon a young man in the office and a few others to organize the McMillan Company, and I said there is more assurance of pine and raw material to-day than ever there was in the history of the sash and door business in Oshkosh. Through my efforts a company was incorporated and to-day it is manufacturing about 600 doors a day, 300 or 400 of them veneered doors with a cheap core; hemlock, or anything will do for cores. There were large factories built up in the West as rivals, but none of them could succeed as against the local factories, because the consumption is all east of us, the great wealth of the nation is east of us. Labor is 25 or 30 per cent higher on the Pacific coast than in this immediate vicinity and will be for a long time to come. Paying freight on the raw material of pulp and paper, in my judgment, would enable the local manufacturer to do the milling in transit and ship to his consumer at a less price than the western mills could manu-That has proven true of the sash and door business, and to-day the Paine Lumber Company, of Oshkosh, has constructed one of the largest sawmills in the United States at Oshkosh after the field had been abandoned, and they are the greatest sash and door manufacturers, the biggest corporation of the kind in the world, with an available supply greater than they ever had at any time in their history. These peculiar speculations as to the exhaustion of the natural resources I do not take much stock in. I think that the forestry reports furnished Mr. Roosevelt are the most ridiculous things that ever were suggested for consideration, because I spent months and months in the forests myself, in the South and West, in Wisconsin and all over, and I have some knowledge of the supply. I think the South itself has a wonderful supply, I won't undertake to

say how much, of spruce or other woods. I had a letter a short time ago from John W. Gates, who is building up great industries there. I would like to have you talk with him as to spruce and other paper material in the South. A company organized in Indiana, a short time ago, bought what they claim to be 100 million feet of spruce grown on old plantations to manufacture wooden ware from small timber 8 or 10 or 12 inches in diameter, but excellent material for paper and wooden ware. Poplar will grow three-fourths of an inch a year and makes good paper. We could grow so much pulp material that we wouldn't know what to do with it if we had any consideration for the future in doing so. We don't need one solitary stick of Canadian wood nor will we ever need it. It is a question of making a good deal with Canada in my judgment, and we have all of the strength and every advantage in the negotiation.

The CHAIRMAN. Take the situation as to the pulp mills in Wisconsin. Where do they now get most of their supply of pulp wood, from

Wisconsin?

Mr. Strange. No, they get a good deal from Minnesota. Wiscon-

sin never was very much of a spruce State.

The Chairman. Mr. Smith was of the opinion that there was hemlock enough in Wisconsin to furnish an inexhaustible supply for the future users of pulp wood. Do you agree with him about that?

Mr. STRANGE. I think, myself, that if it was absolutely necessary to do so you could not only make your sulphite but your ground wood from hemlock and supply the mills of Wisconsin for twenty-five or more years and make a very good grade of paper, putting in a nominal amount of poplar.

The CHAIRMAN. You do not think that will be done, do you?

Mr. STRANGE. Yes, why not?

The CHAIRMAN. You do not think the Wisconsin mills will cease

purchasing spruce wood in Minnesota?

Mr. STRANGE. No. That is an available market, the rate is nominal, and we are practically one, commercially speaking. There is no reason why we should not be. They have gone up there and purchased large holdings of timber and the mistake they made was they didn't supply themselves with larger holdings.

The CHAIRMAN. You speak of bringing wood from Montana. Why

isn't is more available to bring wood from Ontario?

Mr. STRANGE. It is, if they will waive the export duties. I do not know that it is more available. I don't know that it will cost very much less. I think it can be brought from Montana just as cheaply. What traffic arrangements the railroad companies will have with reference to that I do not know. They ought to make a low enough rate. I figure that they can afford to make a low enough rate to ship it here and still make money on the deal. I expect to go out there next week if I can get away. Before going I calculate to take it up with the railroad companies. They won't do it voluntarily.

The CHAIRMAN. They would be more likely to do it, I suppose, if

they met with the competition of Canadian pulp wood.

Mr. STRANGE. I do not think that. Of course, the railroads have a mania for meeting competition without reference to the profit in it. Whether that would impel them to go on to their own destruction, as they have in the past, I don't know. There is no consistency in railroading.

The CHAIRMAN. I have listened to arguments upon that subject from nearly all the leading railroad men of the country for twelve years, and we won't go into that. What would you say would be the effect of taking the tariff off of ground pulp if the Wisconsin River mills could obtain their pulp wood from Canada without any export restriction or charges?

Mr. STRANGE. If they would waive the export duty on wood pulp, I would be willing to take a chance individually on waiving it on

ground wood.

The CHAIRMAN. By the export duty on wood pulp you mean the

export restriction on wood pulp.

Mr. STRANGE. Permit pulp wood to come in here free. Let them both come in here free.

Mr. RYAN. Wood pulp and pulp wood?

Mr. STRANGE. Yes. If you can make a deal of that kind, I would say make it, although I don't think it is good logic. I think it is a contradiction of the very policy we have advocated, home first and the world afterwards. I think we have facilities for building it up independent of Canada.

The Chairman. I am asking now for the purpose of getting at the point of view of the Wisconsin mills, which, I suppose, if there is any place in the country where it may be in any way dependent upon Canadian pulp wood, is here?

Mr. STRANGE. Yes; Wisconsin and Michigan.

The CHAIRMAN. Of course, the mills of New York may be in the

Mr. Strange. Of course, we are not great manufacturers of print

paper in Wisconsin.

The CHAIRMAN. The situation does not relate merely to print paper. Print paper is the cheapest class of paper, but you will have to use pulp wood in nearly all of your papers.

Mr. STRANGE. Yes. We use wood of different kinds.

The CHAIRMAN. You use sulphite in nearly everything, more or less, don't you?

Mr. Strange. Yes. Of course we buy a good deal of foreign pulp.

The CHAIRMAN. Why do you buy foreign sulphite?

Mr. STRANGE. Because it is far superior to the domestic. The CHAIRMAN. It is not simply a matter of price, then?

Mr. STRANGE. It is a matter of price, but we get so much more for our paper that we can afford to pay the increased price for the foreign stock.

The CHAIRMAN. It was suggested by Mr. Jones, of Maine, that the tariff on sulphite ought to be increased 100 per cent. What do you

Mr. Strange. I guess I would have to demur.

The CHAIRMAN. Do you need that foreign sulphite for the manu-

facture of high-grade paper?

There are certain grades of paper that we are making Mr. Strange. now that would be quite difficult for us, perhaps, to make with any domestic that I know of.

The CHAIRMAN. That is, the foreign sulphite is a little cleaner.

Mr. Strange. It is better and stronger, very much stronger. sell it under a test as to strength and cleanliness that we can not get with any domestic that I have been able to reach.

The CHAIRMAN. It is made from the same material, isn't it?

Mr. Strange. Yes.

The CHAIRMAN. Spruce wood?

Mr. Strange. Spruce or pine.

The CHAIRMAN. Why should it be stronger?

Mr. STRANGE. Because they are experts in chemistry and we know nothing of chemistry.

The CHAIRMAN. That is an answer that I suppose is easy to make,

but are you sure that is the reason?

Mr. STRANGE. I don't know of any other.

The CHAIRMAN. If we know nothing of chemistry, we don't know whether that is the reason or not.

Mr. STRANGE. The low-grade wood of which it is made would jus-

tify that conclusion to me.

Mr. Ryan. Their finished product is that much better?

Mr. Strange. Yes.

Mr. Ryan. Do they make it in the same manner?

Mr. Strange. About the same manner. They use a sulphate and a slower process.

Mr. Ryan. A slower process do they use?

Mr. Strange. Slower and different process; yes. They take more pains with it. I understand that the chemistry department of all these mills is a very important adjunct.

Mr. Ryan. We have no such department in America?

Mr. STRANGE. I don't know of any here. I never have met any.

Mr. Ryan. It is a wonder some one here doesn't try that.

Mr. Strange. For instance, I own an interest in one of the largest mills in Wisconsin, high-grade mill, and there is lots of information that we are obliged to obtain abroad and pay for it.

The CHAIRMAN. Of course, the Government is now conducting

experiments on all these things.

Mr. STRANGE. It is a good thing to do.

The CHAIRMAN. Whether the information they obtain will be used by you gentlemen, no one can tell. As a rule, we find that the practical man sneers at the scientific man for a generation or two.

Mr. Strange. Yes; he has got to be a martyr, of course. I view this question, or try to, as it will concern not me, but those in genera-

tions to come.

The CHAIRMAN. What class of paper does the John Strange Mill make?

Mr. Strange. We make 50 different grades, I suppose. We make some print, make colored print, fibers, manila, and so on. We make straw chip board and combination board.

The CHAIRMAN. What is the capacity of your mill?

Mr. Strange. We ought to make 40 tons a day. We make print where we have cars going a long distance, a ton or two of print, but we can not make print paper at the market price which it is sold at a profit. I never could see any money in print paper for our mill.

Mr. Ryan. What market price do you refer to?

Mr. STRANGE. I never knew the time when we could make print paper for less than 2½ cents at the mill in sheets. I can't do it.

The CHAIRMAN. What is the situation of the market now as to

pulp?

Mr. STRANGE. Owing to the drouth, pulp has increased in selling price, I guess, 30 per cent within thirty days.

STATEMENT OF W. S. TAYLOR, OF APPLETON, WIS.

Examined by the chairman.

The CHAIRMAN. Give us your name.

Mr. TAYLOR. W. S. Taylor.

The CHAIRMAN. Of what company?

Mr. TAYLOR. Of the Pulp Wood Company, of Appleton.

The CHAIRMAN. What is the Pulp Wood Company?

Mr. TAYLOR. An organization for the purpose of buying wood for a lot of different mills in the valley.

The CHAIRMAN. What mills in a general way do you buy paper

wood for?

Mr. Taylor. Twelve different mills.

The CHAIRMAN. In the Fox River Valley?

Mr. Taylor. Yes, sir.

The CHAIRMAN. Do you buy any for the Wisconsin River Mills?

Mr. TAYLOR. No, sir.

The CHAIRMAN. What is your system of buying wood?

Mr. TAYLOR. We receive our orders from the different mills in the fall and buy from the lumbermen almost entirely, and from the storekeepers located in the small hamlets through the northern part of Michigan and Minnesota and Wisconsin.

Mr. RYAN. You buy just for a combination of mills? Mr. TAYLOR. For this group of mills on this river.

The CHAIRMAN. I suppose the company is organized by the mills for the purpose of buying more cheaply?

Mr. TAYLOR. Not particularly that.

The CHAIRMAN. For furnishing a steady supply?

Mr. TAYLOR. To avoid these cross shipments.

The CHAIRMAN. Do you buy from the lumbermen in the main?

Mr. TAYLOR. Yes; almost entirely.

The CHAIRMAN. Does that mean that you buy the stuff at the saw mills which they can not saw into lumber?

Mr. TAYLOR. Yes, sir. The CHAIRMAN. How much pulp wood do you handle a year?

Mr. Taylor. About 225,000 cords.

The CHAIRMAN. There is a plentiful supply of pulp wood at present?

Mr. TAYLOR. Yes, sir.

The CHAIRMAN. Nearly all the mills have a surplus on hand?

Mr. Taylor. Yes, sir.

The CHAIRMAN. When do you make contracts? Do you buy it by yearly contract?

Mr. TAYLOR. We make our contracts with the lumber concerns.

The CHAIRMAN. By the year?

Mr. TAYLOR. Say we start in along after the first of October and limit the time of delivery to May 1 of the next year.

The CHAIRMAN. What was the prevailing price of pulp wood, say

last winter?

Mr. Taylor. At what point?

The Chairman. Any point. How do you buy the wood? Upon

what basis?

Mr. TAYLOR. In our Minnesota district we buy on a basis of Duluth prices, delivered f. o. b. cars Duluth. The prevailing price last year was \$7.25 a cord, Duluth and territory taking the same rate.

The CHAIRMAN. That is spruce wood?

Mr. TAYLOR. Yes, sir.

The Chairman. What proportion of your supply did you get from Minnesota?

Mr. TAYLOR. Very close to half, I think. The CHAIRMAN. You say \$7 and what?

Mr. Taylor. \$7.25 a cord.

The CHAIRMAN. F. o. b. Duluth. Is that the basis upon which you buy from the country merchants, or the basis upon which you made special contracts with saw-mill companies?

Mr. Taylor. In that district we do very little except with the big

Mr. TAYLOR. In that district we do very little except with the big lumber operators. We do very little business in that district with

any local fellows.

Mr. RYAN. That is what it cost the paper company, \$7.25 f. o. b.

Mr. TAYLOR. Yes.

The CHAIRMAN. That is what it costs your company?

Mr. TAYLOR. They pay the cost of buying it.

The CHAIRMAN. The administration charges and freight?

Mr. TAYLOR. Yes.

The CHAIRMAN. Is there a plentiful supply of pulp wood in Minnesota, spruce wood?

Mr. TAYLOR. There is a lot of spruce wood in Minnesota.

The CHAIRMAN. Do you have any difficulty at all in getting all you want?

Mr. TAYLOR. No, sir.

The CHAIRMAN. Of course, a year or so ago you did have; that

was owing to the weather conditions?

Mr. TAYLOR. Entirely. We had no winter, you know. We had this condition to contend with up there; if the snow comes before the streams freeze, it is a very hard proposition. Our spruce all grows in swamp land. And if 16 inches of snow falls before the streams freeze, it is hard to get timber.

The CHAIRMAN. Do you mean you can not cut it?

Mr. TAYLOR. You can not get your teams in there. You have to go and break your roads down, and there is no freezing under 6 inches of snow on an open swamp. The only way to establish roads is to work the teams through and break them down. This year everything froze solid before a flake of snow came. In all the years I have been in this business, I never knew but one other year when that condition prevailed, and that I think was either five or six years ago.

The CHAIRMAN. If it freezes up first you have solid roads?

Mr. TAYLOR. Yes. You can go anywhere. The CHAIRMAN. On the ice you mean?

Mr. TAYLOR. Not necessarily. It freezes the ground, the wet ground, so that you can work a horse over it.

The CHAIRMAN. If it doesn't freeze the horses sink in, you mean?

Mr. TAYLOR. That is the idea. You can not work them in a swamp until the frost comes.

The CHAIRMAN. Was that the reason for the shortage of wood a year ago last winter?

Mr. TAYLOR. Yes, sir. That was one reason.

The CHAIRMAN. I think they told us before it was because there was no snow; that they couldn't get the wood out, because there was a lack of snow.

Mr. TAYLOR. You can always get the wood out when the swamps are frozen solid. At least, I have never seen a year when there was not snow enough to get the stuff out if you could get into the swamps.

The Chairman. You need snow to get the logs out?

Mr. Taylor. A little snow; but you make ice roads if your weather is cold, if you have the ground frozen. Snow is an advantage, if you don't get too much of it.

The CHAIRMAN. How much of that Minnesota wood is being oper-

ated in?

Mr. TAYLOR. As to the territory, do you mean?

The CHAIRMAN, Yes.

Mr. TAYLOR. There has nothing been done in the northern part of the State; absolutely nothing.

The CHAIRMAN. Is there good spruce forest clear up to the north! Mr. TAYLOR. To the international line; yes, sir.

The CHAIRMAN. And beyond?

Mr. Taylor. In Canada, north of the river, I never have been personally. I understand there is lots of timber in that part of Ontario, but personally I have seen Minnesota and a great deal of Ontario, but nothing west of Port Arthur.

The CHAIRMAN. Where have you been in Ontario?

Mr. TAYLOR. All through that north-shore district, from the Soo to Port Arthur.

The CHAIRMAN. What kind of spruce timber is there there? Mr. TAYLOR. Lots of it, and good, too. The quality is good.

The CHAIRMAN. Is there any way of getting it down to the lake? Mr. TAYLOR. If you don't get over the height of the land you can bring it down by streams. That is the only way.

The CHAIRMAN. To get it into Lake Superior you would have to

raft it down?

Mr. Taylor. Drive it down the streams.

The Chairman. These streams do not run very far north?

Mr. TAYLOR. I think the height of the land averages about 40 miles back from Lake Superior.

The CHAIRMAN. The rest of the way the streams run north?

Mr. TAYLOR. Yes.

The CHAIRMAN. Would it be practical to bring Canadian logs from the other side of the Divide down to Lake Superior?

Mr. TAYLOR. I don't know how you would do it? There is no rail-

road in that country.

The CHAIRMAN. It could not be done without a railroad being there?

Mr. TAYLOR. No. That would be the only method of handling it.

The CHAIRMAN. Isn't there a railroad up through there?

Mr. TAYLOR. Nothing north of the C. P. R. at present, as I under-

The CHAIRMAN. How far is that north of the north line of Lake Superior?

Mr. TAYLOR. It runs close to the shore all the way up from Sudbury Junction to Port Arthur. It probably doesn't average more than five to ten miles from the shore of Lake Superior.

The CHAIRMAN. It would be a simple matter to make spurs through

that forest, wouldn't it?

Mr. TAYLOR. Not so simple a matter. That is a pretty rough country. That probably would mean 40 or 50 or 60 miles of spur track in most cases.

The CHAIRMAN. You say it is a rough country?

Mr. TAYLOR. A very rough country.

The CHAIRMAN. I supposed it was more of a level country.

Mr. TAYLOR. A very rough country.

The CHAIRMAN. I think we will have to go up there and see.

Mr. Taylor. Don't misunderstand me. I am speaking of the country adjacent to the shore. After you get back above the height of the land—from personal observation I never have seen it.

The CHAIRMAN. That is what I have reference to.

Mr. TAYLOR. Possibly you are right as to that. That may be a level tract. But you have got to get your tracks back from the C. P. R. main line, which runs very close to the shore all the way around there.

The CHAIRMAN. Is the forest in the northern portion of Minnesota

virgin forest?

Mr. Taylor. Oh, yes.

The CHAIRMAN. Or has the pine been cut off?
Mr. TAYLOR. There has very little pine been cut well north. Along the shore near to the border there has been considerable pine cut out. But going back from the lake and north to the international line there has been no operation in there. I have personally been through a great deal of that country.

The CHAIRMAN. It is a question there of the railroad facilities? Mr. TAYLOR. That is all. The same conditions prevail there, to a

certain extent, as they do in Canada.

The CHAIRMAN. That country up there is rather full of water, isn't it?

Mr. TAYLOR. Yes; there are a lot of lakes in Minnesota.

The CHAIRMAN. You refer to up in the neighborhood of the head-

waters of the Mississippi?

Mr. TAYLOR. You are getting away farther north than that. The headwaters of the Mississippi are not north at all. Really that is west from Duluth, taking that as a point.

The Chairman. What are the freight rates from there down here?

Mr. TAYLOR. Our rate of freight from Duluth into the Fox River

Valley is 8 cents a hundred.

The CHAIRMAN. Do you bring it down by rail?

Mr. TAYLOR. A large portion of it.

The CHAIRMAN. Do you bring any by water?

Mr. TAYLOR. Yes, sir.

The CHAIRMAN. Come around by Duluth?

Mr. TAYLOR. We come by the way of the Soo, and we have handled stuff to Ashland by water and on the cars from there, and also into Duluth and on the cars from there.

The CHAIRMAN. You do not make any use of car ferries, do you?

Mr. TAYLOR. No; we never have. There are no car ferries operating in that country, you know.

The CHAIRMAN. How about Wisconsin? How do you pick up your

wood here?

Mr. TAYLOR. We get very little spruce in Wisconsin; our hemlock all comes from Wisconsin.

The CHAIRMAN. Fifty per cent of your wood is spruce?

Mr. TAYLOR. About; yes, sir.

Mr. RYAN. How do you pick up lumber in Wisconsin?
Mr. TAYLOR. Very much the same way. We deal perhaps more largely with the large owners of hemlock stumpage, dealing almost entirely directly with the lumbermen.

The CHAIRMAN. I thought you said you dealt almost entirely with

the lumbermen in Minnesota.

Mr. TAYLOR. It is cedar operators that produce our stuff in the spruce line more largely than the sawmill men.

The CHAIRMAN. What are the cedar operators?

Mr. TAYLOR. People that produce poles and posts and ties and all sorts of cedar products. For this reason that it grows on the same land; that is, a 40 would produce a couple of thousand ties and you would get on that 40 maybe 100 or 150 acres of spruce growing on some part of the 40. The timber grows together. The CHAIRMAN. They cut it clean?

Mr. TAYLOR. They cut it clean, cut spruce down to 4 inches and

cedar posts down to 4 or 5 inches.

The CHAIRMAN. Where you cut down to 4 inches on these forests, is there anything left?
Mr. TAYLOR. Absolutely nothing.

The CHAIRMAN. Of any value?

Mr. TAYLOR. No, sir.

The Chairman. There isn't much stuff under 4 inches in a virgin forest, is there?

Mr. TAYLOR. Anything that is left burns just as sure as there is a dry fall or spring.
The CHAIRMAN. Who owns those forests?

Mr. Taylor. Lots of them are owned by the State, and lots of them are sold by the State, and they are owned by the big operators usually.

The CHAIRMAN. Under the forest conservation law of Minnesota,

is there any tendency there to maintain the forests?

Mr. TAYLOR. Not that I have ever been able to observe.

The CHAIRMAN. When it is cut over it is practically ended as forest?

Mr. TAYLOR. When a forest is cut over where there is any soft timber like pine, or cedar or spruce cut, you can be absolutely certain that within the next two or three years a fire will clean it just as clean as the top of this table.

The CHAIRMAN. Does it afterwards grow up?

Mr. TAYLOR. To something entirely foreign, my experience has been. That is, little white poplar and timber of no value particularly, timber entirely foreign to the original growth.

The CHAIRMAN. Is that likely to burn up again soon?

Mr. Taylor. Exactly, the first time it gets dry, with scarcely a single exception. Sometimes it stands for ten years, but the fire gets in eventually.

Mr. RYAN. What starts the fires?

Mr. TAYLOR. That is a question a lot of us would like to find out about now. Hunters and railroad trains and a hundred other things. We have been trying to find out for twenty years.

Mr. Ryan. When the poplar forests burn down, then what?

Mr. TAYLOR. I never saw but one place, and that was up in Canada, where the original timber had burned, for the growth of underbrush where poplar forests grow is very sparse. It does not kindle a fire; a fire won't run in it the same as in a cedar or spruce swamp.

The CHAIRMAN. This poplar you speak of up there, what is it,

cottonwood?

Mr. TAYLOR. No, it is regular white poplar. It is our regular native poplar. These people talked to me about cottonwood. But as I understand cottonwood, it is a tree that is planted for shade, and

that is nothing similar to our poplar.

The CHAIRMAN. A cottonwood tree is very seldom planted for shade. The Carolina poplar is the male tree propagated from cuttings. There are male and female trees in the poplar, and the female tree, which of course is the seed tree, propagates by this cottonwood seed, but the whole tribe is called cottonwood, except the aspen tree, which belongs to another family.

Mr. TAYLOR. There is a lot of difference between what we call cottonwood in this State and Michigan. We consider cottonwood as absolutely worthless and used to when we used poplar for paper mak-

ing on quite a large scale.

The CHAIRMAN. There is absolutely no difference between the cottonwood and the poplar, except that the poplar family covers a good deal more than the cottonwood, and I undertake to say that the stuff that grows up there is yellow aspen and never gets very big.

Mr. TAYLOR. I have seen it in Canada a foot and a foot and a half

through on the stump.

The CHAIRMAN. Cottonwood grows in Canada?

Mr. TAYLOR. That is what we call poplar.

The CHAIRMAN. I know they call it poplar. They call it "popple" up here. To return to the Wisconsin proposition, do you buy much of your wood through the country merchants?

Mr. TAYLOR. In hemlock, the small stuff, quite a little of it.

The CHAIRMAN. You can not get any spruce wood in Wisconsin now, can you?

Mr. Taylor. Not a large amount of it. Wisconsin never was a

great spruce country.

Mr. Ryan. How do you get that wood that you buy from country

merchants to the point of destination?

Mr. TAYLOR. They load it. We make contracts. We go into a little town and make contracts with some country merchant for three or four hundred cords of wood. He takes a chance on filling that contract, buying it from the settlers, a little here and a little there, knowing from experience that he can produce about this amount of stuff.

Mr. RYAN. Bring it down on cars or on the river?

Mr. Taylor. On cars altogether.

The CHAIRMAN. He will buy that wood whether he has a contract or not, won't he?

Mr. TAYLOR. In some instances, I think so.

The CHAIRMAN. Do you send somebody around to see all these country merchants?

Mr. TAYLOR. Yes, sir.

The CHAIRMAN. What do you think is going to be the price of wood next year?

Mr. TAYLOR. I can not tell you. It will be much less than it was

last year.

The CHAIRMAN. You have a surplus stock on hand?

Mr. TAYLOR. Yes, sir.

The CHAIRMAN. Do you start to make your contracts before the weather conditions determine how much wood can be gotten out?

Mr. TAYLOR. We start making our contracts as soon as the mills

place their orders with us.

The Chairman. The price of paper is down at present? Mr. TAYLOR. That I can not tell you anything about.

The CHAIRMAN. Naturally they want to put the price of pulp wood

down. Do many of the mills own pulp wood lands?

Mr. TAYLOR. Most of the mills have large holdings of hemlock land.

The CHAIRMAN. Do they cut much of their own pulp wood?

Mr. Taylor. Some every year.

The CHAIRMAN. Do you think there is any danger of there being a shortage of pulp wood in Wisconsin?

Mr. TAYLOR. Not during the life of us gentlemen.

The CHAIRMAN. Do you think that the forests of Wisconsin and Minnesota are amply able to provide all the pulp wood that may be needed for many years to come by the western mills?

Mr. TAYLOR. By this group of mills in Wisconsin, and Michigan,

and Minnesota.

The CHAIRMAN. There will be some new mills started, I suppose!

Mr. TAYLOR. I understand there are some talked of now.

The CHAIRMAN. Is there a river dam being constructed up there. partly for the purpose of establishing new mills?

Mr. TAYLOR. That is what I have in mind. I think they figure

on building a mill up there.

The Chairman. Do you want to ask Mr. Taylor anything, Mr. Norris?

Mr. Norris. No, sir.

The CHAIRMAN. How about the Wisconsin River mills, where do they get their supply of pulp wood from?

Mr. Taylor. Through practically the same source of supply.

The CHAIRMAN. Do they have a buying company?

Mr. TAYLOR. I think they have, yes, sir.

The CHAIRMAN. Do you come in competition with them?

Mr. TAYLOR. Yes, sir.

The CHAIRMAN. I should think you would know whether they had a buying company or not.

Mr. TAYLOR. I do know.

The CHAIRMAN. What is the name of their company?

Mr. Taylor. Northern Paper Company.

The CHAIRMAN. That is a company to buy pulp wood?

Mr. Taylor. Yes, sir.

Mr. Ryan. That is located at Grand Rapids, isn't it?

Mr. Taylor. Yes, sir.

The CHAIRMAN. Would you like to ask Mr. Taylor any questions,

Mr. Sensenbrenner?

Mr. Sensenbrenner. Just one. I would like to ask if it is not the fact that the price of pulp wood during the past year preceding this past season was influenced very largely by the lumber market or the price of lumber?

Mr. Taylor. It establishes our price nearly every year.

The Chairman. You say that the largest part of your pulp wood

comes from the operators in the forests?

Mr. TAYLOR. Yes, sir.

The CHARMAN. In this state you purchase hemlock. Most of that

hemlock can be used either for lumber or pulp wood, I suppose.

Mr. TAYLOR. We use the small stuff, very much smaller than the lumbermen use it, and what we call shaky butts, if it is sound and not black, we use that. We have the advantage of being able to take a great deal of material that the lumbermen can not use.

The CHAIRMAN. A great deal of wood which would be thrown away if you did not use it for pulp-wood purposes. But how about the good logs? What were they used for last winter, lumber or pulp

wood ?

Mr. Taylor. We bought a lot of logs last year.

The CHAIRMAN. That were usable for sawmill purposes?

Mr. TAYLOR. Yes, sir.
The Chairman. Why were they not used by the sawmills?

Mr. TAYLOR. I don't know, unless the lumber market didn't warrant

The CHAIRMAN. You had contracts with these people?

Mr. TAYLOR. Yes, sir.
The CHAIRMAN. With a maximum and minimum amount to be delivered ?

Mr. Taylor. Yes, sir.

The CHARMAN. What did they deliver in most cases? The maxi-

mum amount or the minimum amount?
Mr. Taylor. The minimum usually. It is very seldom that we get

the maximum in our contracts.

Mr. RYAN. What other purpose is spruce used for?

Mr. Taylor. Some spruce is sawed into lumber, some of the larger spruce.

Mr. Ryan. Is it the size of spruce that you use for pulp wood?

Mr. TAYLOR. No; we can use it much smaller than it can be sawed profitably.

Mr. Ryan. Why, then, does the price of the lumber in the lumber

market regulate the price that you pay for pulp wood?

Mr. TAYLOR. It applies more particularly to hemlock, although there is a great deal of large spruce that we get.

The CHAIRMAN. Of course, if the lumber market is very high you don't get any of the big timber for pulp wood?

Mr. TAYLOR. That is true.

The CHAIRMAN. What do they make out of hemlock? What kind of lumber?

Mr. TAYLOR. All kinds.

Mr. Ryan. What timber is meant by heavy logs?
Mr. Taylor. Anywhere from 8 inches up. There are plenty sawmills in Minnesota using spruce logs 6 inches. The larger the better, of course. Spruce in our part of the country is not large growing timber. Not like western timber.

The CHAIRMAN. How long have they been using hemlock for saw-

mill purposes to any great extent up here?

Mr. TAYLOR. Fifteen or twenty years anyway. As long as I have been in the timber business. Twenty years or more.

The CHAIRMAN. Didn't they use to cut out the white pine and

leave the hemlock standing?

Mr. TAYLOR. White pine and hemlock don't grow on the same land very generally. Hemlock is classed as a hard wood. It doesn't grow where pine grows, generally speaking.

The CHAIRMAN. Hemlock is more apt to grow in swampy places,

isn't it?

Mr. TAYLOR. It grows where pine don't grow, anyway. Mr. Smith explained that by saying that where hemlock grows the lands are good farm lands. Where pine grows exclusively, the lands are not of so great value.

Mr. Sensenbrenner. Isn't it a fact that during this past season nearly every one of your contractors furnished the maximum and endeavored to have you take the maximum amount contracted for!

Mr. TAYLOR. The first year in my experience it is true this year. Mr. Sensenbrenner. In many cases, endeavored to and did induce you to take more than the maximum amount contracted for?

Mr. TAYLOR. Yes, sir.

Mr. Sensenbrenner. And that is largely responsible for the surplus of wood in the vards?

Mr. Taylor. Yes, sir.

Mr. SENSENBRENNER. And that is due to three causes, one of which, is it not true, was that there was practically no demand for other forest products at prices at which they were selling?

Mr. Taylor. Yes, sir.

Mr. Sensenbrenner. And the contract for pulp wood having been made cheaply before the panic and the prices being as high as the year previous it stimulated the production of pulp wood?

Mr. TAYLOR. Yes, sir.

Mr. Sensenbrenner. Isn't it also true that another cause for the oversupply was that the railroads had an abundance of idle equipment and were anxious to furnish it for the movement of wood?

Mr. Taylor. Yes, sir.

Mr. Sensenbrenner. The third one Mr. Taylor is probably not familiar with. That is the shutting down of mills for want of business, reducing the consumption very materially.

Mr. WHITING. A lack of water.

The CHAIRMAN. With reference to your own company, is the stock of that company owned by the mills that patronize you?

Mr. Taylor. No, sir.

The CHAIRMAN. How is your company organized?

Mr. TAYLOR. It is incorporated under the laws of the State of Wisconsin. The stock is owned by individual members of the mill corporations.

The CHAIRMAN. It is a company organized purely for convenience?

Mr. TAYLOR. Yes, sir. Mr. Ryan. By mill men?

Mr. TAYLOR. Yes, sir.

The CHAIRMAN. What profit does it make?

Mr. TAYLOR. The primary object of our organization was the disposition of the mills, or at least the employees of the mills, to give the shipper a litle bit the worst of inspection. We stand between the shipper and the mill man. Our inspection is final and absolute between the mill and the shipper. We scale all our stuff ourselves and there is no going behind the report of our company on grade and quantity and that sort of thing.

The CHAIRMAN. What profit does your company make?

Mr. TAYLOR. None at all, except the 7 per cent interest. We pay our stockholders 7 per cent interest on the money they have invested in the stock.

The CHAIRMAN. And the price of wood to the mill is based upon the purchasing price?
Mr. TAYLOR. Yes, sir.

The Chairman. And the necessary amount to pay the 7 per cent dividend?

Mr. Taylor. Yes, sir.

The CHAIRMAN. Has there been any increase or diminution in the freight rate?

Mr. Taylor. A slight decrease, becoming effective late last fall.

The CHAIRMAN. Is that in Wisconsin and Minnesota both?

Mr. TAYLOR. Wisconsin only.

The CHAIRMAN. That was a decrease ordered by the Wisconsin commission?

Mr. TAYLOR. Yes, sir.

The CHAIRMAN. Do you cut any wood?

Mr. Taylor. Not as a company; no, sir.
The Chairman. What do you mean, "not as a company?"

Mr. TAYLOR. We own no stumpage. The CHAIRMAN. You buy no stumpage?

Mr. TAYLOR. No, sir; we buy no stumpage.
The CHAIRMAN. You buy only from other people who cut wood?

Mr. TAYLOR. Yes, sir.

The CHAIRMAN. Or who have bought it themselves?

Mr. TAYLOR. Yes, sir.

The CHAIRMAN. You do not keep posted as to the wages of men in the forest, then?

Mr. TAYLOR. Yes, sir; that is part of my business. The CHAIRMAN. Why should you have to do that?

Mr. TAYLOR. It has a great deal to do with the cost of production of the material that we use.

The CHAIRMAN. What has been the tendency during the past winter?

Mr. TAYLOR. I think there has been a little difference, a little less wages paid in the woods than up to this last year, perhaps. The wages have been very high for the last four or five years and possibly a little slump, not as large a slump of wages in the woods as you perhaps have been told by others.

Mr. Ryan. What do you mean by very high? What was the

Mr. Taylor. As high as \$42, \$44, or \$45.

Mr. Ryan. Per month, per man?

Mr. TAYLOR. Per month and board. The wages have not only been very high for the last few years in the woods, but the class of labor they were compelled to get was very unsatisfactory.

Mr. RYAN. What would these men have to do; any particular task

to perform, any quantity of wood to get out?

Mr. TAYLOR. No; they are hired by the month. Mr. Ryan. Just go where they are ordered? Mr. Taylor. In most cases hired by month. Mr. Ryan. What hours do they work a day?

Mr. TAYLOR. From daylight to dark.

The CHAIRMAN. That is, in the winter time?

Mr. TAYLOR. Yes, sir.

The CHAIRMAN. Not very long hours.

Mr. TAYLOR. No; but it is long enough. They start in the woods with a lantern in the morning to see to get to the work and go back with a lantern at night.

Mr. Ryan. They work during all the daylight?

Mr. TAYLOR. All the daylight hours there are. A successful camp foreman expects to have his men on the work in the morning as early as it is light enough to see to work and keep them there as long as they can see at night.

The CHAIRMAN. The wood is cut in the winter, isn't it?

Mr. TAYLOR. They will commence cutting now soon after the first of October on small stuff like cedar posts and ties and that sort of stuff. All that they can get cut of that before the snow gets deep is to their advantage, get it cut and together.

The Chairman. Of course, the farmer can commence to cut as

soon as his crops are out of the way.

Mr. TAYLOR. Yes.

The CHAIRMAN. They can cut some at the present time?

Mr. TAYLOR. I presume that they are cutting, except that they might fear danger of loss by fire through the extreme drought we are having. The farmer does not cut very much stuff except to the extent of clearing off a portion of his farm. We don't get very much stuff from the farmers.

The Chairman. Were these forests up here opened up entirely

by the lumbermen?

Mr. TAYLOR. Originally, yes, but the farmers have opened up in developing farms. The lumber concerns have let go of their lands in blocks of four or five forties or something of that sort to the farmers. The German farmers have cleaned up this country.

The Chairman. Attention was called by Mr. Smith to what he

said was practically virgin forest upon a new railroad line here, six townships in length. Who owns that land?

Mr. TAYLOR. Charley Smith owns a lot of it.

The CHAIRMAN. It is not owned by the General Government?

Mr. TAYLOR. No. they have owned it for several years, some of it. The CHAIRMAN. How did they get that land from the Government?

Mr. Taylor. I think a great deal of that land was sold by the State at \$1.25 an acre.

The CHAIRMAN. Where did the State get possession of it?

Mr. TAYLOR. I can not tell you. A great deal of land was sold in this State by the State of Wisconsin at \$1.25 an acre, and they used to go to Madison to buy it.

The CHAIRMAN. The State might get school land and might get swamp land, but I don't quite understand how the State could get

any other lands.

Mr. TAYLOR. I may have made a statement there that I could not

verify. I don't know how those lands were acquired.

The CHAIRMAN. But the forest is practically a virgin forest without anybody living in it and somebody else owns it than the Government?

Mr. TAYLOR. Yes, there is a great deal of that virgin forest, too, up in that country.

Adjourned.

The committee next visited the mill of the Combined Locks Paper Company at Combined Locks. Wis., reaching there at 3 p. m. of September 17, 1908.

STATEMENT OF WILLIAM VAN NORTWICK, AT COMBINED LOCKS.

Examined by the chairman.

The CHAIRMAN. Give your name.

Mr. Van Nortwick. William Van Nortwick.

The CHAIRMAN. You are the manager of this mill?

Mr. Van Nortwick. Yes, Combined Locks Paper Company.

The CHAIRMAN. What is the capacity of your mill? Mr. VAN NORTWICK. Do you mean in paper?

The CHAIRMAN. Everything.

Mr. Van Nortwick. It is about 70 tons of paper a day.

The CHAIRMAN. Do you make all of your wood pulp and sulphite? Mr. VAN Nortwick. We aim to make it; we make all our sulphite. The CHAIRMAN. What is your capacity on wood pulp, ground pulp?

Mr. Van Nortwick. We make about 50 to 55 tons, on an average.

The CHAIRMAN. What is your capacity on sulphite?

Mr. Van Nortwick. We are making about 18 to 20 tons.

The CHAIRMAN. You are shut down very largely as to ground pulp now?

Mr. VAN NORTWICK. At the present time we are.

The CHAIRMAN. On account of low water?

Mr. Van Nortwick. On account of low water.

The CHAIRMAN. You have four paper machines?

Mr. VAN NORTWICK. Four paper machines.

The CHAIRMAN. Two operated by steam power?

Mr. VAN NORTWICK. Two operated by steam power and two by water power.

The CHAIRMAN. What are the sizes of those and their rate?

Mr. VAN NORTWICK. Two 106-inch and one 120-inch and one 96-inch.

The CHAIRMAN. The two 106-inch are the ones operated by water power?

Mr. Van Nortwick. Yes.

The CHAIRMAN. They are shut down at present?

Mr. Van Nortwick. Yes.

The CHAIRMAN. Do you have any trouble in the machines operated by water power as to their steadiness?

Mr. VAN NORTWICK. We have no trouble with them. The Chairman. They make paper very successfully?

Mr. VAN NORTWICK. They do.

The CHAIRMAN. You have, I notice, a large supply of pulp wood.

Mr. VAN NORTWICK. We have; yes, sir.
The CHAIRMAN. Is that an ordinary or an unusual supply?

Mr. Van Nortwick. Unusual this year.

The CHAIRMAN. Why?

Mr. VAN NORTWICK. The machines were down this summer a great deal and we put in very large orders.

The CHAIRMAN. What is this wood out in the water here?

Mr. Van Nortwick. Mostly spruce wood.

The CHAIRMAN. You use only spruce for ground pulp?

Mr. VAN NORTWICK. Only for ground pulp.

The CHAIRMAN. Do you have more or less hemlock?
Mr. VAN NORTWICK. We have quite a little hemlock. We use it for sulphite almost entirely. We do use some spruce once in a while.

The CHAIRMAN. You use hemlock for sulphite? Mr. Van Nortwick. Yes, sir.

The CHAIRMAN. And spruce for ground wood?

Mr. Van Nortwick. Yes, sir.

The CHAIRMAN. How do you get your wood?

Mr. VAN NORTWICK. Mostly by rail. We get some by boat in the

The CHAIRMAN. Who do you get it from?

Mr. VAN NORTWICK. The Pulp Wood Company.

The CHAIRMAN. They buy practically all your wood?

Mr. Van Nortwick. Yes.

The CHAIRMAN. You own no forests of your own?

Mr. Van Nortwick. We have some up north?

The Chairman. Do you cut some wood?

Mr. Van Nortwick. We haven't any this year, from our woods; no.

The CHAIRMAN. How much do you own?

Mr. Van Nortwick. I couldn't tell you. I don't look after that part of it.

The CHAIRMAN. You are not familiar with the forestry element

of the business?

Mr. VAN NORTWICK. No; I am not.

The CHAIRMAN. Do I understand the spruce wood that you use

comes mainly from Minnesota?

Mr. Van Nortwick. As far as I know. I couldn't tell you where it does come from.

The CHAIRMAN. That is not a part of your particular business?

Mr. Van Nortwick. No.

The CHAIRMAN. You are supposed to take the wood after it gets here ?

Mr. Van Nortwick. Yes.

The CHAIRMAN. Mr. Taylor testified this morning that they got their spruce wood from Minnesota and the hemlock wood mainly from Wisconsin.

Mr. Van Nortwick. Yes.

Mr. Ryan. It is the company that he is connected with that you buy your wood from?

Mr. Van Nortwick. Yes.

The CHAIRMAN. Do you know how much wood on an average you consume in a year?

Mr. Van Nortwick. We use, I think, pretty close to 20,000 cords. The CHAIRMAN. Have you any idea how much you have out here

Mr. Van Nortwick. There is very close to 30,000 cords of spruce.

Mr. Ryan. Does that include what is piled along the shore?

Mr. VAN NORTWICK. Yes; everything in the water and on the banks.

The CHAIRMAN. You have got more than a year's supply according to that, on hand?

Mr. Van Nortwick. Yes.

The CHAIRMAN. Does it deteriorate any?

Mr. Van Nortwick. It may lose a little in the water, get waterlogged and sink.

The CHAIRMAN. You are pretty near down in the river to where you can take that out?

Mr. VAN NORTWICK. We can take it out now at present.

The CHAIRMAN. What water power have you here?

Mr. Van Nortwick. We have around 6,000 horsepower.

The CHAIRMAN. You have a fall of 20 feet?

Mr. Van Nortwick. About 20 feet.

The CHAIRMAN. At the present time you are apparently using all the water in the river.

Mr. Van Nortwick. All we can get, yes.

The CHAIRMAN. How many grinding machines have you operating, do you remember?

Mr. VAN NORTWICK. No, I do not; I think four or five. The CHAIRMAN. How many grinding machines have you?

Mr. Van Nortwick. Nineteen.

The CHAIRMAN. Each with three pockets? Mr. Van Nortwick. Each with three pockets.

The CHAIRMAN. All the power that you can get now is to run four or five?

Mr. VAN NORTWICK. And they are not running full capacity. They are only running a pocket and a half, I believe he said, down

Mr. Ryan. How long have your two large machines been laid up? Mr. Van Nortwick. One of them has been off and on since before Christmas.

Mr. RYAN. It isn't altogether due to the lack of water, is it?

Mr. Van Nortwick. Not altogether, no.

Mr. RYAN. How long have they been down for the lack of water? Mr. VAN NORTWICK. We shut one of them down about a week or ten days ago. The other one started up yesterday morning and went down last night, didn't have enough water to run it. I thought we possibly could get along, but we could not.

The CHAIRMAN. How long have you been short of water?

Mr. VAN NORTWICK. We haven't had our regular water for—I don't know-I can't remember when we were running full.

Mr. Ryan. When your machine was down during the last winter.

what did you attribute that to?
Mr. Van Nortwick. We didn't have orders—

Mr. Ryan. You couldn't get orders?

Mr. Van Nortwick. No, sir. Mr. Ryan. Why?

Mr. VAN NORTWICK. I don't know why. We couldn't get them. That is all.

Mr. RYAN. Was it due to the market price—that you would not sell

paper for the price offered?

Mr. VAN NORTWICK. I do not know as we were offered any busi-

Mr. Ryan. Do you look for business yourself or does it come to

Mr. VAN NORTWICK. No, we do not go out looking for it? Mr. RYAN. You would rather close up than look for it?

Mr. VAN NORTWICK. Well, we don't go out for business at all.

Mr. RYAN. It generally does come, though?

Mr. Van Nortwick. Yes, it does.

The CHAIRMAN. You furnish practically only news print paper? Mr. VAN NORTWICK. We did make a little bit of what they call book paper.

The CHAIRMAN. Not any great quantity?

Mr. VAN NORTWICK. No.

The CHAIRMAN. Your purpose is to manufacture paper for news-

Mr. Van Nortwick, Yes, sir.

The CHAIRMAN. Do you carry that in stock?

Mr. VAN NORTWICK. On contracts we carry some.

The CHAIRMAN. Do you make up any miscellaneous stock?

Mr. VAN NORTWICK. No. unless it would be in counter roll, something in odd sizes, something of that kind.

The CHAIRMAN. You aim to sell your paper before you make it?

Mr. Van Nortwick. Yes, sir.

The CHAIRMAN. What is the effect, then, when you have to shut down two of your machines? You have your paper contracted up to say 75 or 80 per cent of your capacity, and I suppose it is safe to make a contract up to that extent, isn't it?

Mr. VAN NORTWICK. Yes.

The CHAIRMAN. But what do you do when two machines are shut down for months?

Mr. Van Nortwick. If we can not furnish it, it is up to them.

The CHAIRMAN. Is it up to the publisher?

Mr. VAN NORTWICK. Yes, sir. I think it would be.

The CHAIRMAN. While you agree to furnish the paper, does not the

publisher look to you to get the paper?

Mr. Van Nortwick. I don't know. We never had a test case of that kind. I don't know what they would do. It is something we can not help, this low water. If we could help it, it would be different.

The CHAIRMAN. I do not want to get into the legal phase of it. I am trying to get at the practical question now.

Mr. VAN NORTWICK. I could not tell you how it would be. Of

course, we will try to supply it if we can.

The CHAIRMAN. Take, for instance, at present. You paper men tell us that it is not safe for them to make paper up in advance to any great extent and you are not prepared to store it to a large extent.

Mr. VAN NORTWICK. No.

The CHAIRMAN. You aim to contract your paper and there comes a time, like now, when you can manufacture only half of your capacity or the neighborhood of half your capacity; aren't you likely to run out of a supply of paper?

Mr. Van Nortwick. We certainly are; yes, sir.

The CHAIRMAN. Have you contracts enough now to run, say, three machines?

Mr. VAN NORTWICK. I think not.

The CHAIRMAN. Yet you would not take a contract now if it were

offered owing to the low water?

Mr. Van Nortwick. It would not be very safe; no. We would not want to take on any business of any kind until we take care of the contracts we have at the present time.

Mr. RYAN. Do you have trouble in the winter time in having water

enough to operate?

Mr. Van Nortwick. Not to speak of.

Mr. Ryan. Sufficient water in the winter?

Mr. Van Nortwick. Generally have enough water. Once in a while we have low water, but very seldom.

The CHAIRMAN. Are you familiar with the sales end of your busi-

ness?

Mr. VAN NORTWICK. I do not look after the sales end; no.

The CHAIRMAN. You are the operating end of the business?

Mr. Van Nortwick. Yes.

The CHAIRMAN. Have you any views on the subject of the future supply of pulp wood.

Mr. Van Nortwick. No; I have not.

The CHAIRMAN. You haven't studied that subject?

Mr. Van Nortwick. No; I have not.

The CHAIRMAN. You give no attention to the question of the supply of pour pulp wood?

Mr. Van Nortwick. No.

The CHAIRMAN. That is a matter that is attended to by the pulp-wood company?

Mr. Van Nortwick. Yes.

Mr. RYAN. Your mill is not what they call a union mill, is it, so far as labor is concerned?

Mr. Van Nortwick. No.

Mr. RYAN. What hours do your employees work?

Mr. VAN NORTWICK. In the machine room?

Mr. Ryan. Yes.

Mr. VAN NORTWICK. From 7 in the morning until 5 in the afternoon. Then the other crew comes on and works until 7 the next morning. Ten and fourteen.

The CHAIRMAN. That is unusual, isn't it?

Mr. Van Nortwick. The men wanted it that way. The CHAIRMAN. Instead of eleven and thirteen?

Mr. VAN NORTWICK. Yes; they would rather go home a little earlier and the other fellows said they would rather come in a little earlier.

Mr. RYAN. The men in the other parts, what hours do they work?

Mr. VAN NORTWICK. The beater rooms the same.

The CHAIRMAN. These men who work fourteen hours a day, how

do they eat?

Mr. VAN NORTWICK. The carry their lunches. They have plenty of time. A great deal of the time the machine will not bother them at all.

The CHAIRMAN. Do you think that a man that works fourteen hours, from your experience, does good work in the fourteenth hour?

Mr. Van Nortwick. On a paper machine it all depends. doesn't have very hard luck he can. It is only sitting up.

Mr. Ryan. You speak about the men in the beater room. other portion of the mill, what hours?

Mr. VAN NORTWICK. We do not run nights. The grinders run

might and day.
Mr. RYAN. What part does not run nights?

Mr. VAN NORTWICK. Principally all of them run but the furnishing room.

Mr. Ryan. What wage do these men on machines receive?

Mr. Van Nortwick. Wages paid machine tenders on two machines, 27½ cents per hour; machine tenders, 29 cents per hour; back tenders, 16 cents per hour; back tenders, 18 cents per hour; third hands, 12½ cents per hour; third hands, 13 cents per hour; fourth hands, 11½ cents per hour; fourth hands, 12½ cents per hour; oilers, 10 cents per hour; oilers, 9 cents per hour; spare hand, or extra man, \$2 per day.

Mr. RYAN. What are fourth men—the men rolling up the paper

at the end of the machine?

Mr. Van Nortwick. Yes; they help on the winder.

Mr. RYAN. Including the men making up the rolls at the end of the machine, you have 5 men on each machine?
Mr. Van Nortwick. Six men, a spare man.

Mr. Ryan. I notice that the men are usually young men from the ages of 18 up to 25 or 30.

Mr. Van Nortwick. Yes.

Mr. RYAN. What do you attribute that to?

Mr. Van Nortwick. I couldn't say. I never noticed it until you spoke to me about it. I noticed they were young, but I never thought

The Chairman. You are a young man yourself, aren't you?

Mr. Van Nortwick. Yes.

Mr. RYAN. How long has the mill been running? Mr. Van Nortwick. Eighteen to twenty years.

Mr. Ryan. The men that were running your machines ten years ago are not there now?

Mr. VAN NORTWICK. One of them is. Mr. Ryan. What I can not understand is the disposition it seems to me of the mills to have young men. What do they do with the older fellows?

Mr. Van Nortwick. I think it just happens so. We never have laid any of them off on account of age. As I told you, we have one machine tender there now that is over 40 years old. He worked for my father over thirty years, I think.

Mr. Ryan. They all look healthy and strong. I was wondering

why they get out of there.

Mr. Van Nortwick. I don't know. I suppose they get a chance to run a mill or something of that kind. I know one of our machine tenders who has been working with us a long time has gone and taken

The CHAIRMAN. How long have you been manager of this mill?

Mr. Van Nortwick. About a year and a half. The CHAIRMAN. Were you in the mill before that?

Mr. Van Nortwick. I was running a mill before that, superintending.

The CHAIRMAN. Where?

Mr. Van Nortwick. Here.

Mr. Ryan. There is no disposition to restrict the output of print paper, is there?

Mr. Van Nortwick. Not that I know of; no.

Mr. Ryan. It is due entirely to a lack of orders and lack of power that you do not run?

Mr. Van Nortwick. And water; yes.

Mr. RYAN. I notice that the wood lying along the shore—the spruce—was all very small. Why is it that they get it that small?

Mr. Van Nortwick. I couldn't tell you unless they can not get anything else and have to take everything they can get to fill their

The CHAIRMAN. A large part is 4 inch?

Mr. Van Nortwich. Yes.

Mr. RYAN. Is that unusual in the wood that you are getting now?

Mr. Van Nortwick. No; we always get it about this way.

Mr. Ryan. Every since you have been here?

Mr. Van Nortwich. Yes.

Mr. RYAN. It keeps coming small?

Mr. VAN NORTWICH. I don't know, years ago, whether it did or not. I didn't pay so much attention to it then. I know the wood the last few years has been very small.

The CHAIRMAN. When did you get most of your wood in?

Mr. Van Nortwich. It is coming in right along now. It has been coming in within the last four or five months.

Mr. RYAN. You have got more ordered?
Mr. VAN NORTWICH. We will have about 1,000 cords more coming. The CHAIRMAN. I understood Mr. Taylor to say that most of the wood ordered last year was delivered pretty early. Maybe I misunderstood him. On last year's contracts is it being delivered?

Mr. VAN NORTWICH. We have been getting it right along all the time; yes. We have been, up to the present time, handling 14 or

15 cars a day. To-day we are only handling about 6.

The CHAIRMAN. Do you remember what this wood cost you per cord?

Mr. VAN NORTWICH. I think that spruce costs \$11.25 here.

The CHAIRMAN. Delivered here?

Mr. Van Nortwich. Yes.

The CHAIRMAN. How do you figure the cost, at \$11.25 for unload-

Mr. VAN NORTWICH. We buy the wood at \$11 and it costs us about

a quarter to unload it.

The CHAIRMAN. You pay \$11 for the wood delivered here? Mr. VAN NORTWICH. Yes, sir.

The CHAIRMAN. It costs about \$7.50 delivered at Duluth f. o. b. Mr. Taylor says.

Mr. Řyan. \$7.25.

The CHAIRMAN. What do you pay for the hemlock?

Mr. VAN NORTWICH. \$7 delivered here and we unload it.

The CHAIRMAN. A very large share of the cost of that spruce is freight?

Mr. Van Nortwich. Yes. Mr. Ryan. Hemlock does not have to come so great a distance, does it?

Mr. Van Nortwich. No.

Mr. Ryan. You consume much more?

Mr. Van Nortwich. Yes.

The CHAIRMAN. Would large sized spruce 6, 8, or 10 inches in diameter with the ordinary amount running down to 4 inches be more profitable to grind than this small spruce?

Mr. Van Nortwich. I should think it would. I don't know from actual experience. I should think it would be as in barking it you

would certainly waste so much.

Mr. Ryan. It takes as long to bark a small log as a large one?

Mr. Van Nortwich. Just about.

The Chairman. All of your wood is barked or rossed? Mr. Van Nortwich. Yes.

The CHAIRMAN. Before it goes into the grinder?

Mr. Van Nortwich. Yes.

The CHAIRMAN. Whether it is sulphite or ground wood?

Mr. Van Nortwich. Yes.

The CHAIRMAN. I saw no peeled wood that came in.

Mr. VAN NORTWICH. No, we have none. It is all barked here.

The CHAIRMAN. Your hemlock, is that peeled?

Mr. VAN NORTWICH. We get a little peeled.

The CHAIRMAN. For the hemlock bark for tanning purposes?

Mr. Van Nortwich. Some of it comes barked, and some with the bark on. I don't really know.

Mr. RYAN. You use the bark for fuel?

Mr. Van Nortwich. Yes, we get rid of it the easiest way.

STATEMENT OF PETER McNAUGHTON, TAKEN AT LITTLE CHUTE, WIS.

The CHAIRMAN. Give your name in full.

Mr. McNaughton. Peter McNaughton.

The CHAIRMAN. You are the manager of this mill?

Mr. McNaughton. Yes, sir.
The Chairman. Which is called the Little Chute? Mr. McNaughton. The Little Chute Pulp Company.

The CHAIRMAN. What do you manufacture?

Mr. McNaughton. Ground wood pulp.

The CHAIRMAN. Nothing else?

Mr. McNaughton. No.

The CHAIRMAN. You make no sulphite?

Mr. McNaughton. No. sir.

The CHAIRMAN. No paper of any kind?

Mr. McNaughton. No. sir.

The CHAIRMAN. Of course, you sell your ground wood pulp to other mills?

Mr. McNaughton. Yes, sir.

The CHAIRMAN. What is your capacity?

Mr. McNaughton. Fifty tons.

The CHAIRMAN. How much are you making now?

Mr. McNaughton. About 8 tons.

The CHARMAN. Are you making all that you can make with the water power you have?
Mr. McNaughton. Yes; from 8 to 10 tons.

The CHAIRMAN. Do you have any steam power at all? Mr. McNaughton. No, sir.

The CHAIRMAN. You run exclusively with the water power?

Mr. McNaughton. Yes, sir.

The CHAIRMAN. How much stock have you on hand?

Mr. McNaughton. Of ground wood we have at the present time about 40,000 bundles.

The CHAIRMAN. How many bundles to a ton?

Mr. McNaughton. It tests about 42.4 pounds. It varies.

The CHAIRMAN. Do you sell your pulp on contract? Mr. McNaughton. Some.

The CHAIRMAN. Some you sell on the market?

Mr. McNaughton. Yes, sir.

The CHAIRMAN. You have got an emergency just now where there is a demand for ground pulp?

Mr. McNaughton. Yes, sir.

The CHAIRMAN. Is that to your benefit or otherwise?

Mr. McNauchton. To our benefit.

The CHAIRMAN. You only make a small amount now?

Mr. McNaughton. That is all.

The CHAIRMAN. You make a profit on what you have on hand

where you did not have it contracted for?

Mr. McNaughton. We make a profit in this way, that we dispose of it, while if there was a large amount we might not dispose of it so readily.

The CHAIRMAN. How much pulp wood do you have on hand now?

Mr. McNaughton. About 12,000 cords.

The CHAIRMAN. How long will that last you? Mr. McNaughton. Do you mean in the full water?

The CHAIRMAN. Yes; how long would it last you at full capacity?

Mr. McNaughton. About nine to ten months.

The CHAIRMAN. Do you remember how much ground pulp you made last vear?

Mr. McNaughton. I don't remember. I can give you the amount by looking at the books.

The CHAIRMAN. Where do you get your pulp wood from?

Mr. McNaughton. We get it through the Pulp Wood Company.

The CHAIRMAN. That is Mr. Taylor's company?

Mr. McNaughton. Yes, sir.

The CHARMAN. Do you use anything but spruce wood? Mr. McNaughton. Very little poplar.

The CHAIRMAN. Do you aim to buy any poplar?

Mr. McNaughton. We haven't bought any for over a year. A year ago last winter.

The CHAIRMAN. Does poplar make good ground wood?

Mr. McNaughton. No; not so good as spruce. We use very little of it.

The CHAIRMAN. Of course, you can not make ground wood from hemlock?

Mr. McNaughton. No.

The CHAIRMAN. You can not make ground wood from hard woods?

Mr. McNaughton. No.

The CHAIRMAN. Do you know where it comes from?

Mr. McNaughton. I do not.

The CHAIRMAN. Do you know where it is billed from? Mr. McNaughton. No; I do not.

The CHAIRMAN. We understand from Mr. Taylor this wood comes

from Minnesota?

Mr. McNaughton. I understand so, but I don't know. It is delivered to us freight paid, so we have no freight bills to know the shipping point. Some of it comes by boat from Green Bay or Longtail

The CHAIRMAN. Do you know what you are paying for wood now?

Mr. McNaughton. Yes, sir. The CHAIRMAN. How much?

Mr. McNaughton. \$11 a cord.

The CHAIRMAN. That is f. o. b. here? Mr. McNaughton. On the cars.

The CHAIRMAN. I notice a great deal of it seems to be very small

Mr. McNaughton. It is small, average.

The CHAIRMAN. Is that as good as larger wood?

Mr. McNaughton. No.

The CHAIRMAN. There is more waste in this?

Mr. McNaughton. Yes, sir.

The CHAIRMAN. By the time you ross it and grind it? Mr. McNaughton. Yes, sir.

The CHAIRMAN. The fiber is practically just the same, I suppose?

Mr. McNaughton. Yes.

The CHAIRMAN. Have you ever given study to the subject of the future supply of pulp wood?

Mr. McNaughton. Not a great deal.

The CHAIRMAN. You think that the rest of us will take care of that. do you?

Mr. McNaughton. Yes.

The CHAIRMAN. That is what we are trying to find out about now.

Mr. McNaughton. I understand so.

The CHAIRMAN. How long have you been in the business? Mr. McNaughton. Here, fourteen years, coming spring.

The CHAIRMAN. The pulp wood is about the same class during all that time, or is it deteriorating?

Mr. McNaughton. It is about as good now as it has been.

The CHAIRMAN. This pulp wood, I rather gather from what Mr. Taylor has said, is cut out of the forest when they are cutting cedar posts, and of course not very large stuff, naturally?

Mr. McNaughton. No.

The CHAIRMAN. Have you any opinion as to whether it would be an aid to you or not if you could get spruce wood from the north shore of Lake Superior?

Mr. McNaughton. I think it would.

The CHAIRMAN. Do you think if you could get wood from over there on even terms that you could compete with wood pulp manufacturing over there?

Mr. McNaughton. Let me understand you.

The CHAIRMAN. If you can get a supply of wood from over there without any restrictions by the Ontario government, will you need a tariff on wood pulp then?

Mr. McNaughton. I think so; yes, sir.

The CHAIRMAN. Why?

Mr. McNaughton. Labor is higher and water power is higher. The Chairman. Is labor any higher here than it is over there? Mr. McNaughton. I think it is; common labor considerable.

Mr. Ryan. Do you work the two-tour system here?

Mr. McNaughton. Yes, sir.

Mr. Ryan. What hours?

Mr. McNaughton. Eleven and thirteen.

Mr. Ryan. What do you pay your men per hour? Mr. McNaughton. We pay them \$1.65 to \$2.25.

Mr. Ryan. A day?

Mr. McNaughton. Yes, sir.

Mr. Ryan. Is that the general wage right through?

Mr. McNaughton. In this mill?

Mr. Ryan. Yes.

Mr. McNaughton. Yes, sir.

Mr. Ryan. Is that the common labor, as you call it ?
Mr. McNaughton. The very commonest labor \$1.65.

Mr. Ryan. For how many hours? Mr. McNaughton. For ten hours.

Mr. Ryan. That is 16½ cents an hour?

Mr. McNaughton. Yes, sir.

Mr. Ryan. Do they work eleven hours?

Mr. McNaughton. No, not day laborer. Tour workers work eleven hours on machines.

Mr. Ryan. What do the men on machines get?

Mr. McNaughton. \$1.65 to \$2.25.

Mr. Ryan. That depends upon the number of hours they work? Mr. McNaughton. No, it depends upon the place they work in.

Mr. RYAN. What is the highest wage paid to your skilled men per hour?

Mr. McNaughton. We pay millwrights-

Mr. Ryan. I mean your skilled men on the machines. The Charman. You mean on the grinding machines?

Mr. RYAN. Yes.

Mr. McNaughton. \$2.15.

Mr. Ryan. For how many hours?

Mr. McNaughton. For tour workers eleven and thirteen.

Mr. Ryan. That is the average wage, is it? Mr. McNaughton. No. \$1.65 for grinder men.

Mr. Ryan. You say \$2.15 for the tour workers. Does the man get \$2.15 the week he works fourteen hours?

Mr. McNaughton. Yes; he works one week eleven hours and thir-

teen the next.

Mr. Ryan. How much does he get the week he works thirteen

Mr. McNaughton. The same as the other. Mr. Ryan. You don't change wage at all?

Mr. McNaughton. No; he works one week the short tour and the next week the long tour, vice versa.

Mr. Ryan. He gets \$2.15 a day.

Mr. McNaughton. That is the highest priced. The common laborers on the grinders get \$1.65.

The Chairman. Are your wages based on a weekly wage? Mr. McNaughton. No, sir.

The CHAIRMAN. I do not mean weekly pay.

Mr. McNaughton. Daily wage.

Mr. Ryan. \$1.65 would be for an average of twelve hours. Mr. McNaughton. They have their eating time, you know.

The CHAIRMAN. Do they shut down?

Mr. McNaughton. No.

Mr. Ryan. It is less than 14 cents an hour? Mr. McNaughton. They relieve each other.

The CHAIRMAN. Do you have any trouble in disposing of your products?

Mr. McNaughton. Some season of the year we do.

The CHAIRMAN. Are there very many mills that simply make the ground wood pulp?

Mr. McNaughton. There are a considerable number; yes.

Mr. Ryan. Your wage, as I understand it, would be for the laborers 133 cents per hour and for the more skilled men on the machines nearly 18 cents an hour.

Mr. McNaughton. I did not reduce that to hours; probably you

are right.

The CHAIRMAN. Now we will go through the mill, if you please. Mr. McNaughton. One tour works eleven and the other thirteen.

Mr. Ryan. That is to say, an average of twelve?

Mr. McNaughton. That is only the grinder help. In the wood room they only work ten hours.

Mr. RYAN. You say that labor is higher here than in Canada.

What do they pay their men in Canada?

Mr. McNaughton. I don't know; I understand considerably less. Mr. Ryan. Our testimony is to the contrary on that particular

The committee then examined the mill of the Little Chute Pulp

Company.

STATEMENT OF WILLIAM A. FANNON, MANAGER OF THE INTER-LAKE PULP AND PAPER COMPANY, AT APPLETON, WIS., TAKEN AT THE MILL

The CHAIRMAN. What is your name?

Mr. Fannon. William A. Fannon.

The CHAIRMAN. You are the general manager?

Mr. Fannon. Manager; there is no general about it.

The CHAIRMAN. Of the Interlake?

Mr. Fannon. Interlake Pulp and Paper Company.

The CHAIRMAN. What do you make mostly?

Mr. Fannon. Unbleached sulphite.

The CHAIRMAN. What process do you use?

Mr. Fannon. The Miesterlich process.

The Chairman. Will you tell us, as far as you care to make public,

what the Miesterlich process is and what it does?

Mr. Fannon. The advantages are that it is a stronger fiber. a process that does not destroy the fiber in the making of it. not subjected to such harsh treatment as the common sulphite. is a slow process and slow cooking, and they cook with weak acid.

The Chairman. Do you call what you run through the digester

the same as the others do?

Mr. Fannon. You mean, is the fiber the same when it comes out? The Chairman. No. Do you run it through what you call a digester?

Mr. Fannon. Yes; but not the same kind of a digester.

The CHAIRMAN. How long does it take to put the ordinary sulphite through the digester?

Mr. Fannon. I understand that some cook as low as six to eight

hours.

The CHAIRMAN. How long does it take to cook by yours?

Mr. Fannon. We take about thirty hours for it.

The CHAIRMAN. Your sulphite, while it takes longer to make it, is stronger and requires less for paper; is that it?

Mr. Fannon. Yes; it takes less.

The CHAIRMAN. Requires a smaller proportion of sulphite?

Mr. Fannon. Yes, sir.

The CHAIRMAN. Do you have ready sale for it?

Mr. Fannon. Sometimes.

The CHAIRMAN. Is there anybody else who makes it?

Mr. Fannon. Yes; there are other mills making it.

The CHAIRMAN. Any other mill in Wisconsin? Mr. Fannon. There is no other mill in Wisconsin.

The Chairman. What is your consumption of wood and what is your production of sulphite as to capacity?

Mr. Fannon. We are making about 50 tons a day of sulphite.

We are not making that now. We are practically shut down.
The Chairman. Your capacity is about 50 tons of sulphite a day?

Mr. Fannon. Yes, sir.

The Chairman. That is a pretty good capacity, isn't it?

Mr. Fannon. Yes; 50 to 55 tons.

The CHAIRMAN. What do you depend on water power for; the chipping of the wood?

Mr. Fannon. Depend on it entirely for power purposes. We have

The CHAIRMAN. Of course, your water is very low?

Mr. Fannon. The water is very low now. We are practically shut down.

Mr. RYAN. Do you get a greater amount of product out of a cord

of wood than is obtained by the other process?

Mr. Fannon. I don't know. I think we do, but I don't know. It is one of a kind of trade secrets. Some fellows say they can do this and that with a cord of wood, and they claim so much and others claim more.

The CHAIRMAN. What do you use—hemlock? Mr. Fannon. We use hemlock and spruce.

The CHAIRMAN. Where do you buy your wood?

Mr. Fannon. We buy some of it from the Pulp Wood Company, of Appleton.

The CHAIRMAN. That is the Taylor Company?

Mr. Fannon. Yes.

The CHAIRMAN. Do you own any timber?

Mr. Fannon. Yes, sir.

The Chairman. Do you cut any pulp wood yourself?

Mr. Fannon. Yes, sir.

The CHAIRMAN. In Wisconsin?

Mr. Fannon. Yes, sir.

The CHAIRMAN. Do you have any outside of Wisconsin?

Mr. Fannon. No.

The CHAIRMAN. Have you any views as to the future supply of pulp

wood; where you are going to get your pulp wood in the future?

Mr. Fannon. I think, the way they are cutting, it won't take many years before—no; I won't say that. It seems to me that we ought to have some means of getting wood from Canada, from Ontario.

The Chairman. If you could get spruce wood from Canada, with-

out restriction, could you afford to manufacture sulphite without a

tariff duty on it?

Mr. Fannon. That is to say, if we could get the wood in free from Ontario, then we would not care whether there was a duty on the pulp wood or not?

The CHAIRMAN. That is what I am asking.

Mr. FANNON. I would think we could. Mr. RYAN. Wood is free now, isn't it?

Mr. Fannon. Not from Ontario.

The CHAIRMAN. Can not ship it from Ontario at all? From the public lands, and there is not much other.

Mr. RYAN. You can ship it from Quebec.

The CHAIRMAN. Yes; but there is an extra charge on it. You make practically then a higher grade of sulphite. I notice here that a number of the mills using sulphite import sulphite, stating that they get a better, at least a whiter, grade. Does your sulphite come in competition with the imported sulphite mainly or with the domestic sulphite?

Mr. Fannon. It comes in competition with both.

The CHAIRMAN. If they can bring sulphite in here now from Scandinavia and pay the present duty on it, would it make a difference to you if that duty were removed?

Mr. Fannon. I think it would.

The CHAIRMAN. Do you think that would be fully compensated if you could get spruce wood from Ontario?

Mr. FANNON. I think so.

The CHAIRMAN. Do you use much spruce wood in your sulphite, or is that a trade secret?

Mr. Fannon. No; that is not a trade secret. About half our consumption is spruce.

The CHAIRMAN. Do you make an effort to mix it or not?

Mr. Fannon. No; we do not mix it? The CHAIRMAN. Keep it separate? Mr. Fannon. We keep it separate; yes.

The CHAIRMAN. Spruce, sulphite, and hemlock?

Mr. FANNON. Yes; each has its grade.

The CHAIRMAN. And some difference in value? Mr. Fannon. Some difference in value; yes, sir. Mr. Ryan. Do you work the two-tour system here? Mr. Fannon. Yes, sir; two-tour system.

Mr. Ryan. That is, fourteen and eleven hours?

Mr. Fannon. Eleven and thirteen; yes, sir. Part of the mill and part of the mill not.

Mr. RYAN. How many men do you employ?

Mr. Fannon. About in the neighborhood of two hundred. It depends largely on how the wood is coming in. Sometimes if the wood is coming in rapidly we have more men. That is about what we employ.

Mr. Ryan. Do you make paper?

Mr. Fannon. None whatever. We do make ground wood pulp. Mr. RYAN. What wage do you pay your men, naming them by their different positions, per hour?

Mr. FANNON. The figures I would give you of that would hardly be of much service as compared with others, because the conditions are entirely different.

Mr. Ryan. Why?

Mr. Fannon. In the first place, the ordinary digesters are vertical digesters and chips go down in there by gravity and they are blown out under pressure. Ours are horizontal and we fill the chips in from the top through two manholes in the top and have to shovel the stock out. We also have to shovel the chips in, so that the comparison of that department would be of no service—that is, there is no comparison.

Mr. Ryan. The labor would be no comparison, but you could tell

what you are paying the men per day.

Mr. Fannon. Some of the men in there get \$1.50 and some \$2.50 and some \$2.75.

Mr. Ryan. That would mean for an average of twelve hours.

Mr. Fannon. I would correct that. All the way from \$1.50 to \$3.

Mr. Ryan. For an average of a twelve-hour working day.

Mr. Fannon. Yes, sir.

Mr. Ryan. Do you have young fellows working here—boys?

Mr. FANNON. No; we haven't got half a dozen boys in the place. We have got none under 16.

Mr. RYAN. Your help is practically then over 20? Mr. FANNON. Over 20. Married men predominate.

The CHAIRMAN. How much wood supply have you on hand? Mr. Fannon. We have about—it depends on how we run. The way we are running now it would last a good deal longer.

The CHAIRMAN. Have you any idea how many cords you have

piled up?

Mr. FANNON. Oh, yes, sir. We have in the neighborhood of 20,000 cords piled up.

The CHAIRMAN. If you could run full capacity by the year, how

much would you consume?

Mr. Fannon. The 20,000 would last us a little over six months,

about seven months.

The CHAIRMAN. You said a while ago your capacity was 50 tons a day. Did you mean 50 tons of sulphite or 50 tons of sulphite and ground wood combined?

Mr. FANNON. I meant sulphite.

The CHAIRMAN. What capacity have you for ground wood in addition to that?

Mr. Fannon. We have about 6 tons. That mill is shut down now entirely.

Mr. Ryan. That is shut down owing to the lack of power?

Mr. Fannon. Lack of water; yes.

Mr. Ryan. You have no reserve steam plant at all?

Mr. Fannon. None whatever.

Mr. Ryan. If the water is down, you are out of business?

Mr. FANNON. Yes. Mr. Ryan. While you are making your pulp, do you have what they call the sticker men?

The CHAIRMAN. Do you mean where they make the pulp into

bundles?

Mr. Ryan. Yes.

Mr. Fannon. No; we do not have those. We make our pulp into sheets as you see there; dry fiber. Instead of making flat bundles, we carry it off onto a dryer similar to a paper machine and make it into rolls.

The CHAIRMAN. We are very much obliged to you. Glad to make

your acquaintance.

STATEMENT OF W. B. MURPHY, OF THE RIVERSIDE FIBER AND PAPER COMPANY AT APPLETON, WIS., TAKEN AT THE MILL.

The CHAIRMAN. Give your full name. Mr. MURPHY. W. B. Murphy.

The CHAIRMAN. What is the name of the mill?

Mr. Murphy. Riverside Fiber and Paper Company.

The CHAIRMAN. What do you make?

Mr. Murphy. Sulphite and paper.

The CHAIRMAN. What is your capacity on sulphite?

Mr. MURPHY. Thirty tons a day.

The CHAIRMAN. You make a superior quality of sulphite? Mr. MURPHY. Yes, sir; we aim to.

The CHAIRMAN. Give us a little statement in reference to it.

Mr. Murphy. We are aiming in this locality here to compete with the foreign sulphite in the higher grades of writing paper. We are doing it fairly successfully.

The CHAIRMAN. I hold in my hand a sample of bleached sulphite.

Mr. MURPHY. We made that.

The CHAIRMAN. Do you give extra care to the wood that you make it from?

Mr. Murphy. Yes, sir; of necessity we must. The CHAIRMAN. What do you do to the knots?

Mr. Murphy. We have to split our wood open and back the knots out—that is, in case they require it. We do not take out all the knots.

Mr. Ryan. You aim to take out the bad knots?

Mr. Murphy. Yes, sir.

The CHARMAN. They usually do not do that in this country?

Mr. MURPHY. No; not to the extent that we are compelled to on account of our trade.

The CHAIRMAN. You manage to get then a bleached sulphite that is practically free from specks and other extraneous products?

Mr. MURPHY. We can not get it absolutely free from specks.

The CHAIRMAN. I said practically.

Mr. MURPHY. Yes, sir.

The CHAIRMAN. What is the difference in value ordinarily between your grade of sulphite and the ordinary grade?

Mr. Murphy. You are referring to bleached sulphite?

The CHAIRMAN. Yes, sir.
Mr. Murphy. What is the question?

The CHAIRMAN. What is the difference in the market value between your grade of bleached sulphite and the ordinary bleached sulphite?

Mr. Murphy. We are getting \$5 to \$7 a ton more for it than any

other domestic make that I know of.

The Chairman. Where do you get your wood supply from?

Mr. Murphy. Where all the rest of the mills get it from, here, Wisconsin, Michigan, Minnesota, and Canada.

The CHAIRMAN. What kind of woods do you use for this sulphite?

Mr. MURPHY. Largely spruce. The CHAIRMAN, Some hemlock?

Mr. Murphy. Some.

The CHAIRMAN. Do you buy your wood through the Pulp Wood Company, of Appleton?
Mr. Murphy. Yes, sir.

The CHAIRMAN. Do you know where the spruce wood comes from? Mr. Murphy. Yes, sir; I think I do.

The CHAIRMAN. Minnesota, mainly.

Mr. Murphy. Yes, sir.

The CHAIRMAN. And the hemlock from Wisconsin?

Mr. MURPHY. Wisconsin and Michigan.

The CHAIRMAN. How much of a supply of wood have you got on hand?

Mr. Murphy. Enough to run us for six or eight months.

The CHAIRMAN. How much would that be?
Mr. Murphy. That would represent what, in cords, would be

about 12,000 cords.

The Chairman. What is your opinion in reference to the future supply of pulp wood in this locality? Do you think there is any danger of a shortage?

Mr. MURPHY. I do not think there is in our time.

The CHAIRMAN. Do you get a good quality of spruce wood now?

Mr. Murphy. We do not.

The CHAIRMAN. Are you satisfied as to the quality of the spruce pulp wood now that you receive?
Mr. Murphy. We have to be.
The Chairman. That is the best you can do, you think?

Mr. Murphy. That is the best we can do.

The CHAIRMAN. Would it be any advantage to you if you could get spruce pulp wood from Ontario?
Mr. Murphy. It would at a price.

The CHAIRMAN. What do you mean? Do you mean depending on the cost?

Mr. Murphy. Yes, sir.

The CHAIRMAN. You are now paying \$11 for spruce wood?

Mr. Murphy. Yes, sir.

The CHAIRMAN. That is a high price for any kind of wood?

Mr. Murphy. Yes, sir. It is the best we can do under the present conditions.

Mr. RYAN. Do you run all day and all night? Mr. MURPHY. We do when we have orders.

Mr. RYAN. Are you running now? Mr. MURPHY. Yes.

Mr. Ryan. Thirteen and eleven hours?

Mr. Murphy. Yes, sir.

The CHAIRMAN. What is your paper capacity?

Mr. Murphy. About 15 tons of finished writing paper in twentyfour hours.

Mr. Ryan. How much are you making now?

Mr. Murphy. We make that when we run; and when we don't, we shut down.

Mr. Ryan. You run your full capacity or not at all?

Mr. Murphy. Yes.

Mr. RYAN. Are you running now?

Mr. Murphy. Yes, sir.

Mr. Ryan. The wage that you pay to your men, I suppose, is the same as others around in this section?

Mr. Murphy. I do not know what other people are paying. Our

help is all employed by the hour.

Mr. Ryan. State some of the particular positions and the hourly

wages, if you will.

Mr. Murphy. I could not do it without referring to my pay roll. Mr. Ryan. The increased price that you get for your pulp is occasioned by the extraordinary care that you take in the manu-

. Mr. MURPHY. Yes, sir.

Mr. Ryan. It costs more to produce it, doesn't it?

Mr. Murphy. Yes, sir.

Mr. Ryan. You stated, I believe, that you get six or seven dollars a ton more than others.

Mr. Murphy. Five to seven dollars.

Mr. RYAN. It costs a great deal more a ton to make it than it does the other?

Mr. Murphy. Yes, sir.

Mr. RYAN. The skill of the men does not enter into all, does it?

Mr. Murphy. It is eternal vigilance and attention from the time that you start the wood in until you take it out as a finished product.

Mr. RYAN. Do the men making this sort of wood pulp that I have in my hand receive any better hourly wage than the men in the other mills making sulphite?

Mr. Murphy. I think they do.

The CHAIRMAN. Have you got any special machinery?

Mr. Murphy. No, sir. We hire and pay for reasonably good intelligence to make that grade of pulp.

The CHAIRMAN. Will you show us the part of the mill where they

take the knots out?

Mr. Murphy. Yes, sir; any part you wish to see.

The committee then examined the mills of the Riverside Fiber and Paper Company and the Appleton Mill of the Kimberly-Clark Company.

Menasha Hotel, Menasha, Wis., September 18, 1908-9.45 a.m.

STATEMENT OF MR. F. J. SENSENBRENNER.

The CHAIRMAN. You have been sworn before?

Mr. Sensenbrenner. I have; yes, sir.

The CHAIRMAN. Have you prepared some information to present before the committee?

Mr. Sensenbrenner. I have, sir; particularly upon the question of the range in prices as far back as I can discover our records in the matter, and the record includes the period from 1878 to 1907, both inclusive. As to the period from 1898 to 1907, inclusive, I have already testified, and it is in the record. If desired, in order to make the record consecutive, I will testify as to the period from 1878 to 1907, inclusive.

The CHAIRMAN. I think it would be just as well, probably.

Mr. Sensenbrener. These prices are the average of our selling prices during each year up to the year 1898, after which date they are the average of our invoice prices on our total output in news; that is, for the years 1878 to 1897 they are the average of our selling prices and from 1898 to 1907, inclusive, the average of our shipping prices; but as we make yearly contracts only, as a rule, with rare exceptions there won't be a very material difference between the two methods.

The CHAIRMAN. Explain the difference between the sales price

and the invoice price.

Mr. Sensenbrenner. None, unless you average them, because, if we make a contract extending for a period of a year, for instance, and we happen to make it in the middle of one year and it runs into the middle of the following year, by taking the average of the invoice prices it might not be representative of the average of prices at which we sell paper in the calendar year.

The CHAIRMAN. One is the average of the price at which sales are

made or contracts made for a particular year?

Mr. Sensenbrenner. Yes, sir.

The CHAIRMAN. And the invoice price is the price which you receive for paper delivered during the year?

Mr. Sensenbrenner. Yes, sir. For the year 1878 \$7.30 per 100.

The CHAIRMAN. This is for news print paper?

Mr. Sensenbrenner. Yes, sir.

The CHAIRMAN. Of the ordinary quailty which is now in use?

Mr. Sensenbrenner. The ordinary quality prevailing at the time. Of course, the ingredients in the paper made at that time and now differ somewhat: 1879, \$7.21; 1880, \$7.62; 1881, \$7.08; 1882, \$6.41; 1883, \$6.31; 1884, \$6.17; 1885, \$5.89; 1886, \$4.95; 1887, \$4.27; 1888, \$4.23; 1889, \$4.10; 1890, \$3.75; 1891, \$3.18; 1891, \$3.02; 1892, \$2.82; 1894, \$2.38; 1895, \$2.11; 1896, \$2.09; 1897, \$1.69; 1898, \$1.79; 1899, \$1.7705; 1900, \$2.14; 1901, \$1.998; 1902, \$1.949; 1903, \$2.039; 1904, \$2.039; 1905, \$1.97; 1906, \$1.767; 1907, 1.975.

The CHAIRMAN. The lowest point was reached in 1897?

Mr. Sensenbrenner. 1897; yes, sir. The Chairman. At which time the average sales which you made for that year was at \$1.69 a hundred?

Mr. Sensenbrenner. Yes, sir; these prices, I may say, Mr. Chair-

man, are all f. o. b. our mills.

The CHAIRMAN. These figures are taken from the actual sales made by your company of news print paper?

Mr. Sensenbrenner. Yes, sir.

The Chairman. From any particular mill?
Mr. Sensenbrenner. From all of our mills where we happened to be making news. Not of every sale which we made, but representative sales, because within the time I had to prepare this data I could not take every sale and the tons shipped against every price into account.

The CHAIRMAN. These figures are fairly representative of the

actual market sales for that time?

Mr. Sensenbrenner. Yes, sir. I may say in that connection, Mr. Chairman, that up to 1891 we were making this news paper on machines ranging from 571 inches to 82 inches in width running at a speed of from 150 to 175 feet per minute. In 1891 we installed two 106-inch machines at Kimberly and commenced making practically all of our news paper there, which machines run at a speed from 250 to 275 feet per minute. In 1894, I think it was, we installed a 120inch machine at Kimberly which we ran at a speed of from 300 to 325 feet per minute. That mill was destroyed by fire in either 1901 or 1902, early in 1902, I think, when we commenced making all of our print at Niagara, at which point in 1900 we installed two 155-inch machines running at from 420 to 475 feet per minute. There was, of course, a considerable decrease in the cost of production with the increase in width and speed of machines, but that decrease in cost of production, for some years past, has been materially offset by the increased cost of materials; for instance, in 1899—that is as far back as my connection with the company dates—we were buying our spruce pulp wood delivered in the Fox River Valley at from \$4.75 to \$5 per cord as against \$11 per cord that we are paying now. True, there is not a considerable amount of news paper made in the Fox River Valley to-day but the price of spruce pulp wood in the Wisconsin River Valley, where considerable news is made, is substantially the same as in the Fox River Valley; and in districts, or rather in mills, located nearer the wood supply there has been a corresponding increase in the cost of wood. Take our Niagara Wisconsin mill, for

instance, the increase in price and the per cent of increase is already in the record.

The Chairman. You go back with your figures as far as 1878? Mr. Sensenbrenner. Yes, sir.

The CHAIRMAN. At which time news print sold at something over 7 cents a pound?

Mr. Sensenbrenner. Yes, sir.

The CHAIRMAN. The machines then were narrow and slow?

Mr. Sensenbrenner. Yes, sir.

The CHAIRMAN. And pulp wood was cheap?

Mr. Sensenbrenner. Yes, sir.

The CHAIRMAN. Through progress in the manufacture, widening of the machine, increasing of the rapidity of the paper going through the mills, and other ways you decreased the cost from 7 cents a pound to 1.69 cents a pound. What was the cost of the pulp wood in 1897, do you remember? That is, I do not mean exactly, but was it sold low?

Mr. Sensenbrenner. I don't know whether I have any data bear-

ing on that point as far back as that.

The CHAIRMAN. There must have been many economies of manufacture introduced between 1878 and 1897 to reduce the selling price from 7 cents to less than 2 cents a pound.

Mr. Sensenbrenner. There were, both in size and speed of ma-

chines and in the character of the material used in the paper.

The CHAIRMAN. Of course, in 1878 you did not use so much ground wood, I suppose?

Mr. Sensenbrenner. No, sir.

The CHAIRMAN. Can you tell now when the use of ground wood became so prevalent that you brought it down to 75 to 80 per cent of

the constituent material in news print paper?

Mr. Sensenbrenner. So far as we are concerned, with the installation of our machines at Kimberly. Although at that time we had not come to a full realization of the possibilities of the use of ground wood, as is proved by the fact that we built a ground wood mill of 13 tons capacity to supply two 106-inch machines and some other machines making grades in which we used a nominal percentage of ground wood only.

The CHAIRMAN. When was that mill constructed?

Mr. Sensenbrenner. The ground wood mill in 1899 and the paper mill in either 1890 or 1891. I think it was constructed in 1890 and we started it in 1891.

The CHAIRMAN. At that time in 1889 and 1890, you did not appreciate the fact of using so much ground wood in news print paper?

Mr. Sensenbrenner. No, sir.

The CHAIRMAN. I noticed the reduction on the figures that you gave seemed to be rather steady?

Mr. Sensenbrenner. Yes, sir.

The CHAIRMAN. A gradual reduction every year, I think?

Mr. Sensenbrenner. Yes, sir.

The CHAIRMAN. From 1878 to 1897?

Mr. Sensenbrenner. Yes, sir.

The CHAIRMAN. It is very desirable that we should ascertain whether that is on account of economies of production or whether it relates partly also to the cost of pulp wood. There was no reduction in the cost of pulp wood during that time?

Mr. Sensenbrenner. I think not. I have here a memorandum of the testimony I gave as to the cost of the pulp wood at Niagara, which I find dates back to 1898. You asked a question about 1897. The cost of spruce at Niagara during that year was \$3.70. In 1907 it was \$8.80.

The CHAIRMAN. In 1898? Mr. Sensenbrenner. \$3.70.

The CHAIRMAN: That was f. o. b. Niagara?

Mr. Sensenbrenner. F. o. b. Niagara and in the river at Niagara. We got a considerable quantity at that titme by river.

The CHAIRMAN. That was exceptionally low, of course?

Mr. Sensenbrenner. The advantage of location had a good deal to do with it. As I say, a considerable per cent of the wood we got at that time came by river, and the transportation cost was nominal.

The CHAIRMAN. Since 1897 the price of spruce wood—and you can of use anything else for ground pulp adventageously can you?

not use anything else for ground pulp advantageously, can you?

Mr. Sensenbrenner. No, sir; we are using a limited amount of poplar, pine, and balsam, but, measured by our total consumption for ground-wood purposes, it is insignificant.

The Chairman. The price of spruce pulp wood has increased from less than \$4 a cord to, this season, \$11 a cord f. o. b. at the mills?

Mr. Sensenbrenner. Yes, sir.

The CHAIRMAN. Doesn't that lead you to think that it is a very important matter to know where the future spruce-pulp wood is to come from?

Mr. Sensenbrenner. Decidedly.

The CHAIRMAN. Some of the gentlemen who testified before us seem to think it is a very simple proposition; that there is plenty and

abundance of wood all around us waiting to be hauled in.

Mr. Sensenberner. Well, as to spruce, I am inclined to disagree. I still think, however, that it is not a matter of the immediate present that we are going to be troubled with securing our supply of spruce, and that for some fifteen to twenty-five years there is a supply in this country that can be reached by the mills in this State at prices at which they can exist, but on account of the increasing competition of the lumbermen on both spruce and hemlock and the increasing distances from which we have got to ship this wood, the consequent increase in transportation, the prices are steadily tending higher. As to the time when prices will reach a point that we can not deliver the spruce wood to the mills so that they can compete with other manufacturers more favorably located, that is the question. But, as a matter of fact, some of the Wisconsin mills have from twelve to fifteen years past received some of their supply from the Province of Ontario. They have received from fifteen to thirty thousand cords per annum.

The CHAIRMAN. What mills, for instance.

Mr. Sensenbrenner. The mills being supplied by the Pulp Wood Company of Appleton chiefly. Some of the Wisconsin River mills have received wood from Ontario. I think the Canada wood, as I said before, has ranged from fifteen to thirty thousand cords per annum.

The CHAIRMAN. Will the Appleton Pulp Wood Company be able to give us considerable information in regard to the Canadian spruce

wood of Ontario?

Mr. Sensenbrenner. That is as to the quantity received from there or the quantity available there?

The CHAIRMAN. The quantity available there and the correct

method of getting it transported.

Mr. Sensenbrenner. Mr. Taylor, who testified here yesterday, testified somewhat along that line.

The CHAIRMAN. He seemed to know very little about it, I thought.

How do they bring that pulp wood here?

Mr. Sensenbrenner. The pulp wood that was delivered to them was rafted across the Lakes and brought down to Green Bay or brought down to Green Bay Point or Long Tail Point, above Green Bay a short distance. It is a little bit hazardous undertaking at certain seasons of the year, but the bulk of it, and I think practically all of it, has been brought that way.

Mr. RYAN. Then by water from that point?
Mr. Sensenbrenner. Then by water from that point.

The CHAIRMAN. Where is it rafted from?

Mr. Sensenbrenner. The last two or three years, so far as the Pulp Wood Company of Appleton was concerned, rafted from Puckoso and Pancake rivers, on the east shore of Lake Superior. I understood, I am not positive about that, that the Northern Paper Company brought some over from the Port Arthur district this past season. That is on the north shore of Lake Superior. I am inclined to think they rafted that also. As to the supply available to the pulp mills, domestic supply that is, of course, that depends a good deal upon the lumber market conditions, and consequently the competition we will receive from the lumbermen. The time was, and it is only a few years back, that we did not come in competition with the lumbermen on either spruce or hemlock to any extent. used in hemlock what the lumbermen could not use, and in spruce the lumbermen only used down to a certain diameter and did not use it nearly as close as they do when lumber prices are high.

Mr. Ryan. At the time you speak of, what was the diameter that the lumbermen would saw down to, about 10 inches or 12 or 18 inches?

Mr. Sensenbrenner. I think Mr. Ballou is more competent to testify on that point than I am. To-day, on hemlock, we are competitors of the lumbermen with everything that the hemlock produces.

The CHAIRMAN. Saw logs and all?

Mr. Sensenbrenner. Saw logs and all, on account of the increased consumption of hemlock by the pulp mills. As to whether we get a supply or not depends altogether on whether we can afford to pay the prices that they can secure by putting it into lumber. With the exception of this year, hemlock has been a very short commodity for the pulp mills during the previous three years.

The CHAIRMAN. You only use the waste of hemlock logs?

Mr. Sensenbrenner. Small timber, crooked logs, and shaky butts.

The CHAIRMAN. That was the waste of the hemlock forest?

Mr. Sensenbrenner. Yes; so far as sawmill men were concerned.

The CHAIRMAN. Now you use the entire hemlock forests?

Mr. Sensenbrenner. Yes, sir.

The CHAIRMAN. If you can get it?

Mr. Sensenbrenner. If we can get it; yes, sir.

Mr. Ryan. Is that the reason that hemlock is so dear in the eastern market; that is, the competition between the lumbermen and the pulp men, has it increased the price, or is it because there is a scarcity of it?

Mr. Sensenbrenner. I am not so familiar with the condition in Pennsylvania, the leading hemlock State of the East, as I understand

The CHAIRMAN. Some people claim that they make pulp out of everything in Pennsylvania, even down to the leaves and the buds. How much has been the increase in the price of hemlock, if you can tell going way back. You were paying for hemlock in 1900 \$3.95 a cord; in 1907 \$4.94?

Mr. Sensenbrenner. Yes, sir; that is, at our Niagara mill. The CHAIRMAN. That is in Quinnesec. Where is Quinnesec?

Mr. Sensenbrenner. Niagara is the post-office and Quinnesec is the shipping station. Niagara and Quinnesec are the same. I testified in Washington, I think, in connection with these figures that we get a considerable part of our hemlock on the river at Niagara, and about 25 per cent of our consumption was cut from our own stumpage, and the price at which we charged it into our cost was based upon the cost of the stumpage and not what we could have sold it for at the time we cut it. I have some data here showing the range in price on hemlock secured for our Fox River mill at Kimberly from 1898 to 1907, both inclusive: 1898, \$3.24 per cord; 1907, \$7.57 per cord.

The CHAIRMAN. That is for hemlock or spruce?

Mr. Sensenbrenner. Hemlock.

The CHAIRMAN. For 1907?

Mr. Sensenbrenner. Yes, sir. The Chairman. That is for the Fox River mill?

Mr. Sensenbrenner. Yes, sir.

The CHAIRMAN. \$7.54 as against \$4.94 over at the Niagara mills?

Mr. Sensenbrenner. At Niagara mill; yes, sir.

The CHAIRMAN. What is the cost of spruce at the Niagara mill now ?

Mr. Sensenbrenner. 1907, \$8.80 per cord.

Mr. Chairman. Yes; I have that. It is \$11 a cord f. o. b. here at this place now?

Mr. Sensenbrenner. Yes, sir.

The CHAIRMAN. What is it at Niagara?

Mr. Sensenbrenner. I have not the average here, I am sorry to say, for the season of 1907 and '08; but I do not think it will vary from the figures of 1907.

The CHAIRMAN. It is considerably cheaper there than it is here

then?

Mr. Sensenbrenner. Yes, sir.

The CHAIRMAN. That is over \$2 a cord?

Mr. Sensenbrenner. Yes, sir.

The CHAIRMAN. Is there that difference in the freight from Minnesota points?

Mr. Sensenbrenner. We get wood up there at rates ranging from 2½ to 5 cents per cord in addition to which we get some wood by river.

Mr. Ballou. I think you made an error. You said per cord.

think you meant per hundred.

Mr. Sensenbrenner. Two and a half cents per hundred. We get our wood up there for the Niagara mill at freight rates ranging from 2½ to 5 cents a hundred.

The CHAIRMAN. That is from where, Duluth?

Mr. Sensenbrenner. No; from northern peninsula territory, as

against the Duluth rate of 8 cents per hundred.

The CHAIRMAN. How does it happen that you get spruce wood from the northern peninsula for the Niagara mill and get the same wood from Duluth points for the Fox River mills? That is practically crossing freight.

Mr. Sensenbrenner. Hardly.

The CHAIRMAN. It may not be hardly. It looks like it to look on

Mr. Sensenbrenner. If you took the location of Niagara as compared with Duluth, and Fox River as compared with Duluth, into account probably, but we are drawing our supply for the Niagara mill from this territory here. [Indicating.]
The CHAIRMAN. Why do not the Fox River points draw it from

the northern peninsula in Michigan? It is close by.

Mr. Sensenbrenner. The rates are not so favorable to Fox River points as they are to Niagara and the supply up there in that territory is limited.

The CHAIRMAN. From the Northern Peninsula you get water rates to Fox River points and you do not get water rates to Wisconsin

River points.

Mr. Ballou. You can get water rates, but the wood doesn't grow

where you can get the water rates.

Mr. Sensenbrenner. There is considerable wood on the western point of the Northern Peninsula out here and considerable of that wood does come to Fox River. We have only received from there by water this year from 25,000 to 28,000 cards; that is, the Fox River.

The CHAIRMAN. I suppose you endeavor to get it the cheapest way

that is possible?

Mr. Sensenbrenner. We do.

The CHAIRMAN. Spruce wood in the Fox River mills cost in the neighborhood of \$2 a cord more than it does at the Wisconsin mills?

Mr. Sensenbrenner. No. At our Niagara mill. The Wisconsin River territory is, from most wood-producing territories, on practically the same basis of rate as the Fox River territory, as to spruce wood particularly. What limited supply there is in the Northern Peninsula is right on our doorstep practically.

The CHAIRMAN. Do you think you have an inexhaustible supply of

spruce wood in the Michigan Northern Peninsula?

Mr. Sensenbrenner. No, Mr. Chairman, far from it.

The CHAIRMAN. You are paying there now nearly \$9 a cord delivered close to the forest?

Mr. Sensenbrenner. Yes, sir.

The Chairman. As against \$3.70 a cord in 1898?

Mr. Sensenbrenner. Yes, sir.

The CHAIRMAN. Don't you think it is a good time to figure upon where you are going to get the supply ten years from now, when the cost has much more than doubled within the last ten years?

Mr. Sensenbrenner. Yes, sir.

The CHAIRMAN. Have you figured on it? Mr. Sensenbkenner. Somewhat; yes, sir.

The CHAIRMAN. I will be glad to have what your judgment is.

Mr. Sensenbrenner. I think it is of interest to the Wisconsin manufacturers, or the northwestern manufacturers, or rather wood manufacturers of the country, to secure the removal of restrictions upon the exportation of pulp wood from the province of Ontario, and to maintain freedom from restrictions or the removal, if there be any at this time, and I think there is a handicap of 25 cents a cord on wood from Quebec to the eastern manufacturers. So far as I am concerned, I am willing to stand on the Republican platform which provides for a revision of the tariff to the basis of such duties as will equal the difference between the cost of production at home and abroad, together with a reasonable profit to American industries. Now, my theory is that the way to go at the Canadian to secure the open door at Ontario is to increase the duty to practically a prohibitive point until we can make some arrangement with him whereby that door will be maintained open to us and the door of Quebec to our eastern competitors, when automatically a reduction in the duties should take place to the basis proposed in the Republican platform. Now, the countervailing duty under the present tariff undoubtedly was framed to prevent any restriction being placed upon the exportation of wood from the Canadian provinces. As I understand it, that tariff provides that if Canada imposes any export duties on the exportation of pulp wood a corresponding increase in the duties on paper and pulp should be made, but the Canadian, so far as the Ontario government is concerned, evaded that condition of the tariff law by prohibiting exportation of such pulp wood from Ontario as was cut on Crown lands.

The Chairman. Of course the tariff provision as to countervailing duty is a general provision. It has no special reference to pulp wood or any forest product, but only relates to a charge imposed by the Government for the exportation, and our authorities have held, and I think properly, that they could take into consideration the extra charge of 25 cents a cord imposed by Quebec on pulp wood cut on the Crown lands and add that to the duty on wood pulp or print paper, but they could not take into consideration and add to the tariff anything where the province of Ontario forbids the exportation of pulp wood. There is no way of determining in the first place how much that would add to the tariff on wood pulp or print paper when the exportation of pulp wood is entirely prohibited. There is nothing in the law upon which to base it. Suppose you could get the free exportation of pulp wood from Ontario; that is, obtain pulp wood on precisely the same terms for exportation that you could for manufacture in Canada, could you then afford to compete on even terms on wood pulp?

Mr. Sensenbrenner. I think not.

The CHAIRMAN. You think the Canadian can manufacture wood pulp and ship it to the United States cheaper or upon better terms than you can manufacture wood pulp made from Canadian pulp wood?

Mr. Sensenbrenner. Yes, sir.

The CHAIRMAN. Why?

Mr. Sensenbrenner. Because of his nearness to the supply of the raw material.

The CHAIRMAN. Your Niagara mill is very close to the pulp-wood supply at present?

Mr. Sensenbrenner. Yes, sir.

The Chairman. Yet you are in competition with the New York print-paper manufacturer who imports a large proportion of his pulp wood from Quebec, a considerable distance away, and you have not driven him out of the market yet?

Mr. Sensenbrenner. Not quite.

The CHAIRMAN. I doubt whether you can make print paper quite as cheaply as they do. Maybe you can.

Mr. Sensenbrenner. According to the testimony of some of our

eastern friends, we are not making it as cheaply.

The CHAIRMAN. That was my recollection.

Mr. Ryan. How do you account for that when you are so close to the raw material?

Mr. Sensenbrenner. That is, as to our particular Niagara mill, or generally the western mills?

Mr. Ryan. No, the Niagara mill.

Mr. Sensenbrenner. They may be better managers, better manufacturers. I do not recall the testimony of some of the larger mill men who testified as to the cost of production and as to what their cost of pulp wood was.

The Chairman. Isn't it almost invariably true in the world that in the older communities they manufacture the same article cheaper

than they do in the newer communities?

Mr. Sensenbrenner. I am inclined to think so; yes, sir.

The CHAIRMAN. Isn't it a universal rule almost that there is less waste in the older communities than where there is so much that is cheap and easy all around?

Mr. Sensenbrenner. I am inclined to think so, yes.

The CHAIRMAN. Is there plenty of water power to manufacture

wood pulp and print paper in Ontario?

Mr. Sensenbrenner. There are some powers there. As to the number of them and how extensive, I am not thoroughly posted. There are some very good powers.

The CHAIRMAN. Are the shipping facilities good from Ontario

for paper?

Mr. Sensenbrenner. Yes, sir.

The CHAIRMAN. From the territory north of Lake Superior they are not very good, are they?

Mr. Sensenbrenner. Not very good; no, sir.
The Chairman. It requires far better shipping facilities for news print paper than it does for the wood, doesn't it?

Mr. Sensenbrenner. Yes, sir.

The CHAIRMAN. Supposing the price of pulp wood jumps up another hundred per cent in ten years, what will you people do?

Mr. Sensenbrenner. Dismantle our mills and use our water powers to make electrical energy and sell the power.

The CHAIRMAN. Sell it for what?

Mr. Sensenbrenner. For various purposes.

The CHAIRMAN. We can not get along without the morning papers. Mr. Sensenbrenner. I think we can get along without some of them pretty comfortably.

The CHAIRMAN. I am afraid you won't be able to.

Mr. Sensenbrenner. I am afraid not.

The CHAIRMAN. You can not proceed upon the theory that as a country we can abandon the use of paper or news print paper either. The cost of pulp wood affects not only news print paper, but practically all other kinds of paper, as I understand it. Mr. Sensenbrenner. Yes, sir.

The CHAIRMAN. It would have an effect upon any kind of paper.

Mr. Sensenbrenner. Yes, sir.

The CHAIRMAN. Although there might be no pulp wood used in connection with it?

Mr. Sensenbrenner. Yes, sir.

The CHAIRMAN. You use some sulphite in nearly every grade of paper that is made in this valley, don't you?

Mr. Sensenbrenner. Yes, sir.

The CHAIRMAN. Do you consider that it will be feasible to draw pulp wood from Montana, Washington, or Oregon for use in the Fox River Valley?

Mr. Sensenbrenner. Montana may be a possible proposition, by rossing it and drying it to a certain point or permitting it to dry to a certain point. I am a little doubtful about Oregon and Washington.

The CHAIRMAN. Montana is some little distance away? Mr. Sensenbrenner. Some little distance away; yes, sir.

The CHAIRMAN. Never likely to be thickly populated and hence railroad facilities are not likely to be of the best. Don't you think it would be a pretty expensive proposition?

Mr. Sensenbrenner. Likely to be, although personally I have no

information as to the conditions in western Montana.

Mr. Ryan. They have considerable water power there?

Mr. Sensenbrenner. Yes.

The CHAIRMAN. Do you think you could manufacture ground wood as against Canadian competition with perfect success if you could have pulp wood from the north shore of Lake Superior and wood pulp were admitted free of duty?

Mr. Sensenbrenner. I don't think so; no, sir.

The CHAIRMAN. Ground pulp?

Mr. Sensenbrenner. Ground pulp; yes, sir.

Mr. RYAN. Notwithstanding the fact that they have no water power in that vicinity—that is, comparatively speaking, no water

The CHAIRMAN. We do not know how much they have got.

Mr. Sensenbrenner. I do not know how much they have got. For instance, the Spanish River Mill at Espanola, on Georgian Bay, they have got a great water power there. I understand they are making from 130 to 150 tons of ground wood a day with possibilities of greater developments, and there are other powers in Ontario. Booth is in Ontario, I think, isn't it, Mr. Noris?

Mr. Norris. It is on the line between Ontario and Quebec. on one side of the river in Ontario and the Eddy Mill is within a

stone's throw in Quebec.

The CHAIRMAN. That question does not enter into the manufacture of wood pulp in Canada?

Mr. Sensenbrenner. No.

The CHAIRMAN. No forbidding of exportation from Ontario to Quebec ?

Mr. Sensenbrenner. No.

The CHAIRMAN. Do you think the price of pulp wood is going

down this next year?

Mr. SENSENBRENNER. I am inclined to think it will be lower this year, for two reasons: First, the surplus which the mills received during this past season, and secondly, I do not think the competition of the lumbermen will be very active this coming season.

Mr. RYAN. Why won't the competition be active?

Mr. Sensenbrenner. The lumber market outlook is not very favorable yet, and the general sentiment among lumber men, so far as I have been able to ascertain, is that their cut will be comparatively

little this coming winter.

The CHAIRMAN. In the pulp wood which we have seen here, and there seems to be a very large stock on hand at nearly all the mills, particularly of spruce wood, I should not think that would enter into any competition, so far as the lumber was concerned.

Mr. Sensenbrenner. On account of the size of it?

The CHAIRMAN. Yes. Certainly it is too small for saw logs of any kind. I suppose that that comes where the operators clean the forests up?

Mr. Sensenbrenner. Yes.

The CHAIRMAN. And this small spruce they ship here or sell?

Mr. Sensenbrenner. Yes.

Mr. Ryan. Where does that ground-wood mill on the Georgian

Bay find a market for its product?

Mr. SENSENBRENNER. A good part of it in the United States. I am inclined to think the bulk of their production comes to the United States.

Mr. RYAN. What part—out in this country?

Mr. Sensenbrenner. In this country and through the Central States territory. I have no doubt in times of stress they ship some of it East; and a part of it is exported. It depends upon market conditions for ground wood, and the market conditions for ground wood are affected largely by the stage of water in various sections of the country. Right at present I have no doubt that they have an abundant market for every pound they can produce right in the United States.

Mr. RYAN. Under normal conditions, do they find a market for ground wood in Wisconsin, either in the Wisconsin River Valley or the Fox River Valley?

Mr. Sensenbrenner. To a limited extent; yes, sir.

The CHAIRMAN. How about the water power at the Soo?

Mr. Sensenbrenner. They make considerable ground-wood pulp. I think 100 to 125 tons a day is their capacity.

The CHAIRMAN. Have you used any of that?

Mr. Sensenbrenner. We have not used any Soo pulp in recent

years. We have some of it in transit to us now.

The CHAIRMAN. Have you any judgment as to the quality of ground pulp made from the Canadian spruce, as compared with that made from the spruce of Wisconsin and Minnesota and Michigan?

Mr. Sensenbrenner. I do not know that I have. I should not say that there would be very much difference, though I think their output would be materially greater on account of the difference in size of wood.

The CHAIRMAN. That is the larger wood?

Mr. Sensenbrenner. The larger the wood the less the shrinkage.

The CHAIRMAN. I think one of the gentlemen who testified before us stated that the wood pulp he purchased from the Soo company, I believe, was not at all satisfactory; they were not able to use it without using a great deal more sulphite than was profitable.

Mr. Sensenbrenner. That, I rather think, depends somewhat upon market conditions. When there is a big demand for pulp they make it for quantity rather than quality, and the poor paper manufacturer who has to buy it at such times has to take the quality he can get in order to keep running.

The CHAIRMAN. That is a trick of the trade that has not been

divulged before. Tell us about it.

Mr. Sensenbrenner. I think that is about the whole of the story, Mr. Chairman.

The CHAIRMAN. Does that make any more of the pulp?

Mr. Sensenbrenner. They sharpen their stones and do not grind it as well. They grind it coarser.

The CHAIRMAN. Does that make more of it?

Mr. Sensenbrenner. They can make it faster; ves, sir.

The CHAIRMAN. They make it faster?

Mr. Sensenbrenner. Yes, sir; increase their product per grinder. The CHAIRMAN. It makes the paper a little coarser; is that it?

Mr. Sensenbrenner. Yes.

The CHAIRMAN. Do you care to testify in regard to the Dean-Shibley, whatever it is, proposition?

Mr. Sensenbrenner. It depends upon what the committee would

like to know, if it is left to my choice.

The CHAIRMAN. Well, we have not thought of going into that for several reasons which I do not care to state, but if you have anything to say with reference to it, we will be very glad to hear you. You receive immunity, you understand, for what you testify before the committee.

Mr. Sensenbrenner. I think if I should care to testify upon the

subject there would be very little that I could say.

The CHAIRMAN. That project has been revived, as I understand it! Mr. Sensenbrenner. There has been an effort made on it during practically the whole of this year; but as to the probabilities of success, that is largely a matter of speculation.

The CHAIRMAN. Has there been any reduction in the labor cost

since the panic of last fall?

Mr. Sensenbrenner. No, sir; not so far as our mills are concerned, except to a very limited extent. Our roustabout labor, so called. of which there was an extreme shortage during nearly the whole of last year and of the year before, has been restored to the normal wage, but that is so small a per cent of our total pay roll as to be insignifi-

Mr. Ryan. What do you mean by normal wage?

Mr. Sensenbrenner. Well, the wages prevailing during normal time, when there was not a shortage in the labor market.

Mr. Ryan. What is that per hour per man, what you call rousta-

bout labor?

Mr. Sensenbrenner. We pay different wages in the different occupations.

The CHAIRMAN. You went into that quite fully before?

Mr. Sensenbrenner. Yes, sir. Mr. Ryan. But that particular thing that I asked about—the

roustabout labor, so called?

Mr. Sensenbrenner. \$1.65 to \$1.75. We were paying as high as \$2 during the times of shortage of labor. That class of labor has been restored for from \$1.65 to \$1.75.

Mr. Ryan. For an average of twelve hours' work a day?

Mr. Sensenbrenner. Yes; tour men.

The CHAIRMAN. You were paying truckers and pilers, as you testified, \$1.621 a day.

Mr. Sensenbrenner. Yes; loaders, \$1.75, and the grinder men \$2.

I think that is all in the record, isn't it, Mr. Chairman?

Mr. Ryan. Yes.

The CHAIRMAN. That is the reason I asked you whether there had been any substantial change.

Mr. Sensenbrenner. No, sir.

The CHAIRMAN. Does Mr. Hurlbut have anything to do with the routing of the pulp wood as well as the product of the mills?

Mr. Sensenbrenner. I think not. As to pulp wood, Mr. Ballou

is more competent to testify on that point than I am.

The Chairman. Have you any other figures there that you have gathered for us?

Mr. Sensenbrenner. I have not.

STATEMENT OF M. H. BALLOU AT MENASHA, WIS.

The CHAIRMAN. You testified before?

Mr. Ballou. Yes, sir.

The CHAIRMAN. Have you prepared some information for us?

Mr. Ballou. Not any.

The CHAIRMAN. I thought you agreed to.

Mr. Ballou. When?

The CHAIRMAN. The other day, when we had an informal talk here. Mr. Ballou. I do not believe it was left to me to prepare any figures. I went away the other day, and just got back this morning, and consequently have not had an opportunity to go into any figures.

The CHAIRMAN. What have you got to say in reference to the prob-

able future supply and cost of pulp wood?

Mr. Ballou. That is very largely a matter of transportation. There is no doubt, of course, our pulp wood is getting at a greater distance continually. In respect to the pulp wood of this country—I mean the whole country reaching clear to the coast—there is no question but what there is an almost unlimited supply. Now, the only question is the cost of reaching it, the cost of transportation, moving it to the mills. Naturally, under present conditions, a long rail haul from the West, we could not expect the railroads to haul that for a price that we could afford to use it, and if the same conditions existed north of us in Ontario Province that exist in the West we naturally would go to Ontario for wood on account of transportation.

The CHAIRMAN. If Ontario were part of the United States?

Mr. Ballov. Yes; if the same conditions existed in Ontario that exist in our own States, naturally we would go to Ontario for our wood as against the Western States. Wholly on account of transportation.

The Chairman. Isn't it almost a sure thing that as spruce wood gets farther and farther from the mills, and there is consequently an enhancement of the price of paper, that the spruce forests of Ontario will be developed by some one, that the spruce wood there will either be manufactured into wood pulp and print paper in Ontario, or else it will be brought here and used in the mills already constructed?

Mr. Ballou. That will depend wholly upon the action of the Government in regard to the tariff. If our Government took the same position that Ontario is taking-prohibited the movement of that material here—there certainly would not be any of it sent here. On the other hand, if they remove any restrictions, then they certainly would enter into the manufacture there.

The CHAIRMAN. Wouldn't that be a good deal like proposing to

have England or Germany prohibit the importation of wheat?

Mr. Ballou. Possibly.

The CHAIRMAN. You don't think that is very likely to come about,

do you?

Mr. Ballou. Well, I don't know. I don't think so, not with the newspapers taking the other side, and they seem to have control at the present time.

The CHAIRMAN. What makes you think they have control?

Mr. Ballou. Well, they have so far.

The CHAIRMAN. They never have had their way about this proposition, have they?

Mr. Ballou. They have, at times, yes.

The CHAIRMAN. The newspapers have been running longer than we have.

Mr. Ballou. They have not agitated the question so extensively

The CHAIRMAN. Mr. Norris has appeared before different committees of Congress and other bodies for many years?

Mr. Ryan. Ten years.

The CHAIRMAN. More than ten years.

Mr. Ballou. I did not know that. That probably is the reason he is so well versed.

Mr. RYAN. You would want the duty so high as to permit you to

transport the pulp wood from the Far West?

Mr. Ballou. No; I would not. The solution of the proposition in my mind is this: Canada, as I have seen it, and I have been over there, is not, nor will not be in the very near future, a successful manufacturing proposition on paper.

The CHAIRMAN. That is, you mean manufacturing paper?

Mr. Ballou. You don't manufacture on paper, you manufacture the paper.

The CHAIRMAN. There is quite a difference?

Mr. Ballou. Yes; I will admit that. The Canadian proposition, as I see it, is rather of a lumbering proposition; that is, labor over there is of a cheaper nature than it is here. The French Canadian. which predominates, is an axman. He could not run a paper machine, unless he developed differently from any of the help that we

have had of the same class, in a hundred years. He is an axman. My theory of the proposition is that the pulp possibly could be made to an advantage in Canada, because there is very little help required in the manufacture of ground wood pulp; but as to the paper end of it, it is a different proposition entirely. I can not understand how the removal of the tariff on paper from Canada would reduce the cost of the paper to the publishers. I think Mr. Norris will agree with me that any of the paper manufacturers that now exist in Canada will testify that they never have made any money to any extent. There may be isolated cases, but I am taking it as a general proposition.

The CHAIRMAN. They will testify precisely along the same lines then, that the American manufacturers will testify?

Mr. Ballou. I haven't heard of any testimony by the American manufacturers that they have not made any money in their paper mills.

The CHAIRMAN. Have you made money?

Mr. Ballou. Yes, sir.

The CHAIRMAN. I am glad to have one man admit it.

Mr. Ballou. I haven't heard any testimony that they haven't made any profit, because it would be foolish to assume that they are running

this for pleasure.

The Chairman. If, in your judgment, we can manufacture paper as cheaply or cheaper than the Canadians can, and the removal of the tariff would not affect the price of the paper to the publisher, which means the selling price by the mills—I am inclined to agree with you on both propositions—what is the object of keeping the tariff on print paper at the expense of forbidding exportation of pulp wood which is most accessible to your mills?

Mr. Ballou. The prohibiting of the pulp wood, of course, to our manufacturers and the removal of the tariff would be simply suicidal to the mills over here. I would go just halfway on that and say allow the importation of pulp from Canada and the free importation

of wood, but not the manufactured product.

The CHAIRMAN. You think it would be about a fair and even standoff if we could remove the duty on ground wood pulp in exchange for the removal of the restrictions on the exportation of pulp wood?

Mr. Ballou. Yes, sir.

The CHAIRMAN. How about sulphite?

Mr. Ballou. I think it would apply the same. The CHAIRMAN. Take off the duty on sulphite?

Mr. Ballou. Yes, sir.

Mr. Ryan. You don't think that would interfere with the American manufacturer?

Mr. Ballou. No. The Canadian would be at a little disadvantage in the sulphite end of it. The fuel problem would be quite a problem on the sulphite end of it, whereas in ground wood it don't require any fuel.

The CHAIRMAN. What is the reason there is very little news print

paper manufactured in the Fox River Valley?

Mr. Ballou. Because the mills as originally built or that are now in existence in the Fox River Valley are not modern is one reason.

The more modern and larger machines have been established on water powers nearer the timber in the northern part of the State, and I think that the reason that the other grades are made here is practically on that account.

The CHAIRMAN. That is, there has been a greater development in machinery for the manufacture of news print paper than there has in machinery for the manufacture of other kinds of paper?

Mr. Ballou. I think so.

The CHAIRMAN. Hence the old machines are relegated to the manufacture of other kinds of paper both on account of speed and size?

Mr. Ballou. Yes. More particularly, perhaps of speed than any

other one thing.

The Chairman. I asked Mr. Sensenbrenner about whether Mr.

Hurlbut routed the pulp wood.

Mr. Ballou. He never has, but we are now placing it in his hands, arranging for the coming crop that he will do it.

The CHAIRMAN. He is figuring closely on freight tariff?

Mr. Ballou. Yes. He won't be able to do that to any great extent, because the lines reaching to the wood, the mills located on that line, you cannot change the rate because it has got to go over that line; but where there are connecting lines, he can have some influence, perhaps, in getting the best advantage out of it in that way.

The CHAIRMAN. If we should want some one to testify as to freight

rates, he probably would be the best man?

Mr. BALLOU. I think he would. He is very familiar with all that

The CHAIRMAN. I mean as to particular mills from particular points?

Mr. Ballou. Yes, sir.

The CHAIRMAN. If he is preparing to route the pulp-wood supply for next year, of course he will have all that down exactly?

Mr. Ballou. Yes, sir; he will.

The CHAIRMAN. Does he operate for the Wisconsin River mills as well as the Fox River mills?

Mr. Ballou. Yes; all of them.

The CHAIRMAN. He practically covers most of the mills in the State, as I recall?

Mr. Ballou. Yes, sir; nearly all.
The Chairman. You haven't made any figures about prices?

Mr. Ballou. No; I have not. I have not been in the business hardly long enough so that it would be of very much interest.

The CHAIRMAN. How long have you been in the business?

Mr. Ballou. About twelve years. Until the last four or five years

we were not manufacturing any print paper of any kind.

The Chairman. By the way, Mr. Sensenbrenner, can you tell us, or Mr. Ballou, either, whether the trend of prices of other papers has been somewhat similar to the trend of prices on news-print paper; because we are interested in the inquiry as to other papers just as much as we are on news-print paper?

Mr. Sensenbrenner. Somewhat similar; yes, sir. Perhaps the variation has not been in the same degree as the news-print paper.

The CHAIRMAN. You are inclined to think that there was a reduction in the price of other papers down to 1896 or 1897, somewhere along there?

Mr. Sensenbrenner. Yes, sir.

The CHAIRMAN. And then some increase of price since that time?

Mr. Sensenbrenner. Yes, sir.

The CHAIRMAN. I wonder if we could get hold of the figures on some standard paper?

Mr. Sensenbernner. I am inclined to think we can prepare some

figures for you on that point, Mr. Chairman.

Mr. CHAIRMAN. We would be very glad if you would.

Mr. Sensenbrenner. I will do it; I presume I can get them to you by mail, can't I?

The CHAIRMAN. Yes. How about wrapping paper?

Mr. Sensenbrenner. We make manifa wrappings and have for quite a good many years, and perhaps can prepare a statement showing the range of prices over twenty-five years. I do not recall now how far back our history in the manufacture of book paper goes, but I think I can prepare some figures for you in that line also.

The CHAIRMAN. Have you anything to say on the Dean propo-

sition?

Mr. Ballou. No, sir.

The CHAIRMAN. It is a concession, you know, from us to allow

anybody to testify to it?

Mr. Ballou. I would go this far on that, Mr. Chairman, as to the result in case the Dean Consolidation, so called, was perfected, what result it would have on the publisher in regard to what he would have to pay for his paper. As to the detail of the general proposition, I am not very familiar with it, and would not care to go into it. The CHAIRMAN. I suppose the effect upon the publisher will be

very apparent if the consolidation goes through?

Mr. BALLOU. I think so.

The Chairman. If it does not go through, it does not make any difference?

Mr. Ballou. I think it would be very apparent to him in a more steady price, and probably a less average price than it would be if it did not.

The CHAIRMAN. Of course, that it a matter that we leave in the main to the tender mercies of the-

Mr. Ballou. Poor paper millers?

The CHAIRMAN. No; the Government represented by the Attorney-General.

Mr. Ballou. It is in pretty good hands, I guess, so far as he is concerned.

The CHAIRMAN. If you testify before this committee on that subject, you are immune as to anything you testify.

Mr. Ballou. I do not think I would lose any sleep either way

about that.

The CHAIRMAN. There have been cases where gentlemen have been very anxious to testify.

Mr. Ballou. Oh, yes.

The CHAIRMAN. In order to become immune.

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Mr. Ballou. I have no doubt of that.

The CHAIRMAN. As I understand the present situation in the paper business, it is almost unexampled so far as water power is concerned.

Mr. Ballou. Yes; that is true, covering so large a scope of the

territory at one time.

The CHAIRMAN. What is the proportionate amount of power now being used in the Fox River Valley by the paper mills?

Mr. Ballou. I think 10 per cent.

The Chairman. That is a restriction made because of the low water?

Mr. Ballou. Yes—that is, there is only 10 per cent being used—not a restriction of 10 per cent. There is a restriction of 90 per cent.

HD9821

PULP AND PAPER INVESTIGATION HEARINGS.

SEPTEMBER 19, 1908

SELECT COMMITTEE OF HOUSE OF REPRESENTATIVES

JAMES R. MANN, Illinois, Chairman

JAMES M. MILLER, KANSAS HENRY T. BANNON, Ohio

WILLIAM H. STAFFORD, WISCONSIN THETUS W. SIMS, Tennessee

WILLIAM H. RYAN, New York

NO. 29

WASHINGTON
GOVERNMENT PRINTING OFFICE
1908



WOOD PULP, PRINT PAPER, ETC.

On September 19, 1908, the committee visited the mills of the Nekoosa-Edwards Paper Company at Nekoosa, Wis., the Nekoosa-Edwards Paper Company at Port Edwards, Wis., and the Grand Rapids Pulp and Paper Company mill, 4 miles north of Grand Rapids, Wis. Also the mill of the Consolidated Water Power and Paper Company at Grand Rapids, Wis.

GRAND RAPIDS, WIS., September 20, 1908.

STATEMENT OF THOMAS E. NASH, OF GRAND RAPIDS, WISCONSIN.

Examined by the CHAIRMAN:

The CHAIRMAN. Will you please give the stenographer your full name?

Mr. Nash. Thomas E. Nash.

The CHAIRMAN. And address?

Mr. Nash. Grand Rapids, Wis.

The CHAIRMAN. What paper mills are you connected with?

Mr. Nash. The Nekoosa-Edwards Company.

The CHAIRMAN. That is a consolidation of the John Edwards and the Nekoosa?

Mr. Nash. It is owned by the same stockholders largely, and the

Northern Paper Company, which is a pulp-wood company.

The CHAIRMAN. The Northern Paper Company is not a manufacturing company at all?

Mr. Nash. No.

The CHAIRMAN. Will you tell us in your own way your views and knowledge in regard to the present and probable future available

supply of pulp wood, particularly spruce and hemlock?

Mr. Nash. Of hemlock we have a large quantity in this State and the Upper Peninsula of Michigan, enough to last us a great many years. Of spruce there has been very little in the State of Wisconsin. There never were large forests, and of course they have been reduced almost entirely. There is considerable wood in Minnesota and the Upper Peninsula of Michigan available to us, and some in Ontario that can be made available shortly if it is made so that we are permitted to go into it. In fact, we are getting some from Ontario now.

The CHAIRMAN. That is, from the freehold lands?

Mr. Nash. Yes, I suppose so. It comes to us through a contractor.

The CHAIRMAN. Where do you receive it?

Mr. Nash. At Green Bay. It comes by boat from Port Arthur to Green Bay on contract, and is towed from Sault Ste. Marie to Long Tail Point. That is outside of Green Bay about 7 miles.

The CHAIRMAN. Port Arthur is on Lake Superior? Mr. Nash. About 150 miles northeast of Duluth.

Mr. CHAIRMAN. These logs are towed?

Mr. Nash. No, those are boated from Port Arthur. From Sault Ste. Marie they are towed. From Port Arthur they are boated to Green Bay and from Sault Ste. Marie they are towed in rafts.

The Chairman. Why do you go so far west on the Canadian shore for Canadian wood; can't you get wood on the east shore of Lake

Superior?

Mr. Nash. We don't designate it as the east shore. We designate it as the north shore. The Pigeon River Lumber Company is largely owned by the people in this vicinity and their manager is a stockholder of one of these mills, and we wrote to him and he got this wood at Port Arthur. That is how we happened to go up there for it. That was this past year.

The CHAIRMAN. Do you know how much spruce forest is tributary

to Port Arthur?

Mr. Nash. There is a great deal of it, if you go directly west in the Lake of the Woods region. If you go north you get into the height of the land and it would only be made available by a new railroad. The height of land comes pretty close to Lake Superior.

The CHAIRMAN. All of the land north of that would either have to have railroads to bring the wood over the divide or else go north

in the streams that go north?

Mr. Nash. Run into Hudson Bay; yes, sir.

The CHAIRMAN. Do you know anything about the water power of those streams?

Mr. Nash. Yes, some of them. There is one point of Lake Superior where the height of land runs 150 miles north. The Canadian Pacific Railroad follows the hog back with this exception. That is at Lake Nipigon.

The CHAIRMAN. Lake Nipigon drains into Lake Superior?

Mr. Nash. Yes. There is power in between the lake and the bay. My sons have been there and they can tell about it.

Mr. RYAN. What distance is it from Lake Nipigon to the Bay? Mr. NASH. About 30 miles. It is about 90 miles to the north end

of the lake.

The CHAIRMAN. Port Arthur is where the Canadian Pacific reaches the lake?

Mr. Nash. Yes, sir; at Thunder Bay.

The CHAIRMAN. You get a fair quantity of spruce wood that comes into the lake at Port Arthur?

Mr. Nash. Yes, sir.

The CHAIRMAN. Do you know where that is cut?

Mr. Nash. I think it is cut somewhere on the Canadian Northern Railroad out toward the boundary. It is shipped in there. The Pigeon River Lumber Company operate on the boundary directly north of there, and tow their logs up to Port Arthur and saw them there.

The CHAIRMAN. They tow their logs to Port Arthur? Mr. Nash. Yes, sir. From the mouth of Pigeon River.

The CHAIRMAN. Is that low country around Lake Nipigon good forest?

Mr. Nash. Fairly good in spots; it is not solid.

The CHAIRMAN. It is filled with lakes?

Mr. Nash. Some lakes; yes, sir.

The CHAIRMAN. There seems to be more or less swamp in there. Mr. Nash. Instead of being swampy it is a rocky, hilly country.

The CHAIRMAN. West of Thunder Bay?

Mr. Nash. So far as we could see from the railroad track, it is very rocky.

The CHAIRMAN. Is there very much spruce?

Mr. Nash. Scattered spruce. I think there is a good deal there. It is reported to be very heavily spruced in spots.

The CHAIRMAN. Do you know how it is east of Lake Nipigon? Do

you know anything about that country?
Mr. Nash. No; I have never been there except to Michipicoten. I was up to Michipicoten and Magpie. There are scattered spots through there.

The CHAIRMAN. This wood that you get from the Soo, do you know where that comes from?

Mr. Nash. I think it is cut some on the south shore and some over on the Canadian side on freehold land.

The CHAIRMAN. Are you familiar with the forestry conditions east of the Soo, north of or around Georgian Bay?

Mr. Nash. Only in the most general way.

The CHAIRMAN. What leads you to believe that the supply of hemlock in Michigan and Wisconsin which can be used by the Wisconsin mills is practically inexhaustible?

Mr. Nash. I would not put it practically inexhaustible. I would say in considerable quantities, but not practically inexhaustible, Mr.

Chairman.

The CHAIRMAN. I say, for the use of the Wisconsin mills. You think it is not practically inexhaustible?

Mr. Nash. I know it is not.

The CHAIRMAN. At the present rate of the use of hemlock by the Wisconsin mills, will the hemlock in Wisconsin and the north peninsula supply the demand for many years?

Mr. Nash. Yes, sir.

The CHAIRMAN. There is a tendency in the mills here now, isn't there, to increase the proportion of sulphite manufactured and decrease the proportion of ground pulp manufactured?

Mr. Nash. That is where they are changing their grades of paper.

They increase the hemlock and decrease the spruce.

The Chairman. That would increase the drain upon the hemlock forests?

Mr. Nash. Yes; naturally.

The Chairman. Have you, or anyone, so far as you know, an estimate of the amount of standing hemlock in this State?

Mr. Nash. I have seen the Government estimate. I haven't got any myself. I don't know whether my son has or not.

The CHAIRMAN. If you have only the Government estimate that is not of any value.

Mr. Nash. I don't think we have any.

The CHAIRMAN. What have you got that would indicate anything in reference to the hemlock?

Mr. Guy Nash. We have estimates of the cut of lumber. That would not give the standing timber. I mean the amount that is cut each year.

The CHAIRMAN. We would like to have, if we can get it, an esti-

mate of the cut.

Mr. Nash. My son has got that. He has got the figures.

The CHAIRMAN. Do you know what quantity of spruce wood is probably used in the Wisconsin River Valley annually?

Mr. Nash. I could make up a rough estimate. I know what the Northern Paper Company buys for four mills and the other I would have to estimate it.

The CHAIRMAN. What mills does the Northern Paper Company

buy for?

Mr. Nash. Grand Rapids Paper and Pulp Company, Centralia Pulp and Water Power Company, John Edwards Manufacturing Company, Nekoosa Paper Company.

The CHAIRMAN. The Consolidated gets its pulp wood through

Mr. Nash. Wisconsin Pulp and Paper Company.

The CHAIRMAN. I suppose the Stevens Point mill gets its wood through the same source?

Mr. Nash. Yes, sir.

The CHAIRMAN. How is the one at Ladysmith; where do they get their wood from?

Mr. Nash. The same.

The CHAIRMAN. Mr. Ballou is manager?

Mr. Nash. Yes, sir.

The CHAIRMAN. How about the one at Rhinelander?

Mr. Nash. That is the Wisconsin Pulp Wood Company. They were last winter.

The CHAIRMAN. They supply most of the mills?

Mr. Nash. Yes. We supply only four mills. They supply most of

The CHAIRMAN. They get most of their spruce wood from Minnesota ?

Mr. Nash. Yes, sir.

The CHAIRMAN. Do you get most of yours from Minnesota?

Mr. Nash. Yes, sir.

The Chairman. How do you arrange for it? Do you contract

Mr. Nash. We contract with producers, men that are loggers over there, and get out these ties and telegraph poles and cedar posts. Spruce is mixed in, and they get out some of their own and buy from settlers and loggers—get regular contracts.

The Chairman. You make a contract with them usually based on

f. o. b. at Duluth?

Mr. Nash. Yes.

The CHARMAN. So far you find that they are able to furnish you with spruce wood?

Mr. Nash. Abundantly.

The CHAIRMAN. You do not yourself go back into the forest to any extent to ascertain what is the probable future source of supply?

Mr. Nash. No; except in a general way.

The CHAIRMAN. What is the spruce wood being delivered in the mills for now?

Mr. Nash. Delivered at the mills?

The CHAIRMAN. Yes.

Mr. Nash. I think about \$10.50 or \$10.60. I would have to look up the contracts. What are you billing that for?

The Bookkeeper. \$11.25.

Mr. Nash. That includes office expenses.

The CHAIRMAN. That would be the same rate as the Wisconsin pulp?

Mr. Nash. About the same.

The CHAIRMAN. Theirs is \$11 f. o. b. on the cars at the mill.

Mr. Nash. Yes.

The CHAIRMAN. Over in the Fox River Valley?

Mr. Nash. We charge a little higher, so that they will come out even at the end of the year. There may be some money to divide out of that.

The CHAIRMAN. They figure over there it would cost them \$11.25 unloaded. Is that what your figure is?

Mr. Simon. That is about what it costs here.

The CHAIRMAN. The hemlock—what does that cost?

Mr. Nash. The rates vary on that. From some places it is 3 cents and some 44.

The CHAIRMAN. Ten years ago what did spruce cost?

Mr. Nash. Do you want that at the mill or f. o. b. shipping point? The Chairman. I do not care which. Ten years ago according to the testimony of Mr. Sensenbrenner, and I simply refer to that because I have it most convenient, spruce wood cost the Kimberly-Clark Company at their mill at Quinnesec f. o. b. cars and river at mill \$3.70 a cord.

Mr. Nash. I guess they were close to the timber. It costs us more

than that, I think. We will have the exact figures.

The CHAIRMAN. Nineteen hundred and seven spruce cost that mill \$8.80 a cord. They are located up nearer to the Michigan supply? Mr. Nash. Yes, sir.

The CHAIRMAN. They have some spruce up on the Michigan Penin-

sula, haven't they?

Mr. Nash. Yes. There has been good spruce there and there is some left.

The CHAIRMAN. That is where this mill gets its spruce from?

Mr. Nash. Yes; they get it at the lower mills.

The CHAIRMAN. But there is a great difference between \$3.70 and \$11.25?

Mr. Nash. I don't think ours will show that difference. In 1898 spruce cost us \$5.50 f. o. b. mills.

The CHAIRMAN. It would now cost you \$11?

Mr. Nash. Yes, sir.

The CHAIRMAN. Doesn't that lead you to think that you might have a great increase in the cost of hemlock in the next ten years?

Mr. Nash. Unquestionably. The price is going up without a

doubt.

Mr. RYAN. Mr. Nash, that spruce that you obtained in 1898 at \$5.50, where did that come from?

Mr. Nash. Locally. We did not go as far for it as Minnesota. We bought on a lower freight rate, some on the Wisconsin Valley road and some on the Soo, where our freight rates were less than they are

Mr. Ryan. That supply has become exhausted?

Mr. Nash. Yes, practically. We get a little, but not much.

The CHAIRMAN. When these mills were constructed along the Wisconsin River at first, did they figure upon going to Minnesota for spruce wood?

Mr. NASH. I think not. We thought there was enough in Michigan

and Wisconsin to supply us many years.

The CHAIRMAN. To supply you with spruce for many years?

Mr. Nash. Yes, sir.

The CHAIRMAN. You have learned better?

Mr. Nash. Yes, sir.

The CHAIRMAN. You now think there is plenty of hemlock to supply you for many years? Mr. Nash. Yes, sir.

The CHAIRMAN. Supposing you should learn better in the same way in the next ten years that the supply of hemlock would not hold

out, what would happen to the mills here?

Mr. Nash. I think the sheriff would have a job unless we found other sources or could get higher prices for our paper. Instead of going to Minnesota, we could go farther west or go to Canada and get a higher price for our paper.

The CHAIRMAN. Do you think you would have to have a higher price for your paper if you could get spruce wood from Ontario?

Mr. Nash. I think we would; ves, sir.

The CHAIRMAN. Why?

Mr. Nash. They wouldn't supply us as cheaply as our own men

have been doing.

The CHAIRMAN. What effect would it have, in your judgment, upon the mills on the one side and the owners of forests on the other in the United States if the tariff duty were taken off of lumber and wood pulp with the right of free exportation of wood or pulp wood from the Crown lands of Ontario?

Mr. Nash. The immediate effect might be to disturb things.

the end I think it would be all right.

The CHAIRMAN. You think there is a natural supply of spruce wood on the north shore of Lake Superior which might profitably be converted into a finished product through the water power of these and other streams in Wisconsin?

Mr. Nash. Some of that that is most accessible. The other would have probably to be converted on their water powers up there after

they got railroads to them.

The CHAIRMAN. Bring spruce wood from Ontario; of course, you

can not go very far back of the railroads.

Mr. Nash. No, sir; you can not go more than anywhere from 12 to 50 miles. The height of land ranges from 12 to 50 miles, except on Nipigon. That is an exception.

The Chairman. If proper conservation methods were adopted in the forests of Wisconsin and Minnesota, would it be possible to continue the supply of those woods here by the new growth?

Mr. Nash. No; I do not think it would grow as fast as it is being used.

The CHAIRMAN. Is this land upon which hemlock grows suitable

for agricultural purposes?

Mr. Nash. Most of it. Spruce is just the reverse. Spruce is swamp land. Hemlock in this country grows as a rule mixed with hard woods, and the soil is generally quite fair.

The CHAIRMAN. This country around where we are now, Grand

Rapids, was that formerly heavy forest?

Mr. Nash. There was some pine growing along the river. On the sand barrens there was very little timber. West of here there is a great deal of pine and hard wood, after you get 3 miles from the river.

The CHAIRMAN. South of here there was very little timber?

Mr. Nash. Very little. That was sand barrens.

The CHAIRMAN. I should think pine would cover that.

Mr. Nash. It is too poor to grow pine. Jack pine grows on it yet. The Chairman. I never heard before of any land that was too poor to grow pine.

Mr. NASH. I can show you some, in an automobile, in half an hour. The CHAIRMAN. The poorest land I ever saw was down in Florida,

and it grows the finest pine known.

Mr. Nash. They have moisture. It is close to the ocean. It is not hot and dry. There is more moisture.

The CHAIRMAN. Yes; there is more moisture there.

Mr. Nash. This sand gets dry and very hot.

The CHAIRMAN. What grew on these sandy barrens?

Mr. Nash. Jack pine and scrub oak.

The CHAIRMAN. How do your logs come down from Duluth?

Mr. Nash. By rail. Do you mean what railroad?

The CHAIRMAN. Yes.

Mr. Nash. We have three roads: Chicago, St. Paul, Minneapolis and Omaha, Wisconsin Central and Chicago, Milwaukee and St. Paul.

The CHAIRMAN. Do you remember what the freight rate is?

Mr. Nash. Eight cents, I think, it is from Duluth.

The CHAIRMAN. Eight cents from Duluth to Grand Rapids?

Mr. Nash. Yes, sir.

The CHAIRMAN. I suppose all the other points get the same as Grand Rapids?

Mr. Nash. Yes. I think it is the same to the Fox Rixer.

The CHAIRMAN. How about the timber supply farther West?

Mr. Nash. There is a great deal of that that is not at present available.

The CHAIRMAN. The spruce wood that you get now from Minnesota, I suppose, grows in the northeastern portion of that State?

Mr. Nash. North central to the northeast. We get some from that Bemidji country.

The CHAIRMAN. Is there any spruce wood up in the Leech Lake territory?

Mr. Nash. Yes; a great deal.

The CHAIRMAN. Going west from that, where do we first strike any good forests of spruce?

Mr. Nash. The first I know of is in western Montana and Idaho, and through Idaho and Washington.

The CHAIRMAN. That is a good ways from your mills?

Mr. Nash. Yes.

The CHAIRMAN. Won't the freight rate be practically prohibitory on spruce wood for a long period of years?

Mr. Nash. It will depend upon what the railroads want to do and

the price of paper.

The CHAIRMAN. I mean where are you going to haul wood for that distance for any series of years. Wouldn't it mean that it would be so expensive that new mills would be established out there for the west, and for the eastern portion of the country mills would be established in Canada unless you have a prohibitory tariff?

Mr. Nash. That would be the tendency, but we should try to offset that by saying that they would have to pay the freight back on the paper. Unless you had a prohibitive duty, of course, the Canadian would come in with their paper. They are coming in now, as I

understand it.

The CHAIRMAN. Do you believe that it is practical to run the paper mills in this valley with spruce wood brought by rail from the western part of Montana and Idaho and Washington and Oregon?

Mr. Nash. Under present circumstances, no, sir.

The CHAIRMAN. Do they have large spruce forests out in Oregon and Montana?

Mr. Nash. Yes, sir:

The CHAIRMAN. Is it good spruce?

Mr. Nash. Fine.

The Chairman. How far south does that spruce run along the Rocky Mountains?

Mr. Nash. There is some in Colorado as far south as mid-Colorado,

and some in Wyoming.

The CHAIRMAN. Isn't it very expensive to handle these logs up in

the mountains?

Mr. Nash. Yes; it is prohibitive now. If we got the timber for nothing, we couldn't handle it under present circumstances. The timber is there, but not available.

The CHAIRMAN. What kind of spruce makes the best pulp?

Mr. NASH. White spruce, of course, makes the best pulp that I know anything about.

The CHAIRMAN. That has the least resinous substance in it?

Mr. Nash. Yes; and fewer black knots. It makes a nicer pulp and nicer paper.

The CHAIRMAN. Is that what you get from Minnesota, white spruce?

Mr. Nash. Yes.

The CHAIRMAN. Is that what you had in Wisconsin largely?

Mr. Nash. No; some of it was black swamp spruce. It grows larger in Minnesota and a little higher.

The CHAIRMAN. What do they have out in the Rockies?

Mr. NASH. They have white spruce and white fir. I think that is a good paper wood.

The CHAIRMAN. They have several kinds of spruce out there,

haven't they?

Mr. Nash. Yes. I was looking for the one kind when I was out

there. I didn't pay any attention to the others.

The CHAIRMAN. Suppose you could get good spruce pulp wood from the north shore of Lake Superior and Ontario from the Crown lands on even terms with the citizens of Ontario, could you afford to manufacture wood pulp or ground pulp in free competition with the Canadian manufacturers?

Mr. Nash. That would be a very close call.

Mr. Ryan. For the American market?

The CHAIRMAN. Yes.

Mr. Nash. It would be a very close call. I don't know that we could do it under the very best circumstances. I think we would

come very near doing it.

The CHAIRMAN. Which would be better for the paper business, to reach the point where spruce woods are so expensive to the Wisconsin manufacturers that they could not afford to use spruce wood or to get spruce wood from Ontario and compete with the people who might endeavor to manufacture wood pulp in Ontario?

Mr. Nash. In my judgment, the manufacturer has got to look for cheap raw material at any hazard. He may be driven out after he gets it, but his one object is to get the cheapest raw material he can.

The CHAIRMAN. What other uses could be made of the water power in the Wisconsin valleys that would absorb all the power except paper nills?

Mr. Nash. I don't know of a thing at present. The Chairman. You have good power, I take it?

Mr. Nash. We have first-class power.

The CHAIRMAN. Not unreasonably expensive in any way?

Mr. Nash. No; it is very cheap as powers go.

The CHAIRMAN. The wood that you now get from the north shore comes around by boat partly from Port Arthur and part through the Soo——

Mr. Nash. That from the Soo is towed down in rafts. The other comes by boat. Both come from the Sault Ste. Marie down through Lake Michigan.

The CHAIRMAN. To Green Bay?

Mr. Nash. Seven miles from Green Bay, Long Tail Point; there are docks there for unloading.

The CHAIRMAN. It is farther to reach you than it is in the Fox

Kiver !

Mr. Nash. Yes; by nearly a hundred miles.

The CHAIRMAN. When it gets at the head of Green Bay it is put on cars?

Mr. Nash. Yes.

The CHAIRMAN. This that you raft down, is that rafted down to Green Bay?

Mr. Nash. To Long Tail Point. The Chairman. In the same way?

Mr. Nash. Yes, sir.

The CHAIRMAN. Through the lake?

Mr. Nash. Yes, sir.

The CHAIRMAN. I did not suppose they would allow any rafts to go down through the locks at the Soo?

Mr. Nash. They untie the booms at the head of the rapids and catch the timber again in the main river. It doesn't come through the locks.

The CHAIRMAN. It comes down through the Straits of Mackinac? Mr. NASH. Yes. It is towed through there. There is plenty of room there.

The CHAIRMAN. How much pulp wood do you get that way?

Mr. Nash. Our contract was 10,000 cords a year.

The CHAIRMAN. That covers both places?

Mr. Nash. No; that is the one contract. The other we bought 5,000 cords and we got about four.

The CHAIRMAN. You are all loaded up with pulp wood at present,

I believe?

Mr. Nash. Yes, sir.

The CHAIRMAN. How much of a supply has the Nekoosa mill on hand 8

Mr. Nash. Certainly more than a year.

The CHAIRMAN. I suppose, when you make contracts this fall, you

won't want to buy quite as much?

Mr. Nash. I don't think we will have to buy any this fall; we have enough inside to carry us over. What we do buy we will expect to get a little less.

The CHAIRMAN. You would not be willing to pay \$11 f. o. b. cars

here for spruce wood for next year?

Mr. Nash. No.

The CHAIRMAN. Are these forests out in Idaho and Montana ex-

tensive enough to last long when they get at them?

Mr. Nash. Oh, yes. That supply I should say for the present mills is inexhaustible. That is a moist country and can keep them going forever. It grows faster than in this dry cold climate of ours.

The CHAIRMAN. How long does it take a forest to reproduce here?

Mr. Nash. I couldn't say.

The Chairman. Forest conservation has never been practiced in this State, I take it.

Mr. Nash. No; just starting in now, the State is.

The CHAIRMAN. Do you get any wood of your own here? Mr. Nash. Hemlock; yes, sir. And balsam and tamarack.

The CHAIRMAN. You use hemlock and balsam and tamarack all in your sulphite mills? Mr. Nash. Yes, sir.

The CHAIRMAN. Do you take it as it comes?

Mr. Nash. Yes. We clean up the land as we go, on those timbers. The CHAIRMAN. Do you run in pulp wood as it comes, or do you have a limited quantity of tamarack?

Mr. Nash. We separate it. Tamarack has not been used very extensively. It is a harsher wood and has to be treated differently.

Balsam we can run in with the other.

The CHAIRMAN. If there is not too much of it?

Mr. Nash. It doesn't make any difference with us on fiber papers. The CHAIRMAN. I should suppose balsam would have too much of the resinous substances?

Mr. Nash. We take care of that. The CHAIRMAN. You strip the land?

Mr. Nash. Yes.

The CHAIRMAN. What becomes of it?

Mr. Nash. Undoubtedly it will go to farmers. We haven't sold off any yet, because we don't want any settlers starting fresh fires in our vicinity.

The CHAIRMAN. How much timber land do you own or control?

Mr. Nash. We own about 40,000 acres.

The CHAIRMAN. That is up near Ashland?

Mr. Nash. Yes; about 40 miles south of Ashland. The CHAIRMAN. Is that virgin forest up there?

Mr. Nash. What white pine there was is supposed to have been cut off near the streams. There is very little white pine left. In fact, there never was much on this tract of ours, so that practically it is virgin forest.

The CHAIRMAN. If we should go up to view that, would we get a

fair sample of the Wisconsin forests?

Mr. Nash. I think so.

The CHAIRMAN. What percentage of that is hemlock, in your judgment?

Mr. Nash. About 60 per cent.

The CHAIRMAN. Is that about the percentage that hemlock would run in Wisconsin?

Mr. Nash. I think that is a little large. We selected it especially for hemlock. I think it is a larger percentage than usual. Forty or

50 per cent of hemlock is a good stand.

The CHAIRMAN. The Government is now endeavoring to gather information as completely as possible of all forests owned in tracts of over 50,000. Suppose that should disclose the fact that you did not have forests enough up here to supply you, what would you be thinking about doing then?

Mr. Nash. I would hate to let my competitors know.

The CHAIRMAN. In a general way. They would know. Mr. Nash. Yes. Well, I should, of course, do as any other business man would do; I would see if there was not some way I could get a supply and keep agoing; if not, I should think I would have to convert the mill to other uses. If we could not get a supply there would be no other course left.

The CHAIRMAN. Has this jack pine been cut off these barrens down

Mr. Nash. Some is cut off for cord wood and such purposes.

The CHAIRMAN. Does that grow up rapidly; does it reproduce

Mr. Nash. No; it never amounts to much. It is small, scrubby stuff. It is only good for fuel wood, temporary fence posts, and they occasionally use it for box boards.

The CHAIRMAN. Might they not use that for wrapping papers and

things of that sort?

Mr. NASH. Yes; it might be put to that use. Mr. Ryan. What opinion have you, if any, in regard to the Government regulating the trade relations on wood pulp or paper, or anything of that character, between Canada and the United States?

Mr. Nash. In what respect?

Mr. RYAN. In the event of tariff legislation being enacted by the Government what opinion do you have as to what would be the best for the American industries or the American people in general?

Take your own case, for instance, as a paper manufacturer?

Mr. Nash. Our own case is not quite typical, from the fact that we use so much larger percentage of hemlock and balsam and tamarack than we do of spruce, and we could get along with what perhaps would not do for other men. In our own case, I think if we had free access to the forests of Ontario that we would allow them to bring in their pulp free, and it would put us both on an even keel, so far as that is concerned. If we are going to have any tariff on the chemicals and raw material we should have something to offset that, a countervailing duty, which I understand is about 15 per cent, and that is little enough.

The CHAIRMAN. Do you remember whether you have looked that

up since the last Canadian tariff was in operation?

Mr. Nash. No; I have not done so; I don't know what that is.

The CHAIRMAN. Do you import some sulphite?

Mr. Nash. We do not.

The CHAIRMAN. You come in competition with imported sulphite,

imported from Europe?

Mr. Nash. One of our mills does, but I am not familiar with the details of that; that is, I do not look after the details of the Port Edwards Paper Company, so I could not testify on that point.

The CHAIRMAN. You have given special attention, as I understand,

to the matter of supply of pulp wood?

Mr. Nash. Yes, sir.

The CHAIRMAN. Forestry conditions?

Mr. Nash. Yes, sir.

The CHAIRMAN. Believing, I suppose, that the first thing to do in the manufacturing business is to get the material?

Mr. Nash. The very first thing is to get it and next to get it as

cheap as you can.

The Chairman. You can not commence without material, and you

can not continue unless you get it cheaply?

Mr. Nash. That is right. That is stated as pat as it could be put. The Chairman. What about these forests in Minnesota; do they

grow large spruce timber?

Mr. Nash. You find very large trees mixed in with pine and other woods. Where it grows in pure spruce stands it is generally quite small, ranging from 6 to 14 inches on a stump, but quite small.

The CHAIRMAN. Is that virgin forest?

Mr. Nash. Yes, sir.

The CHAIRMAN. That is as large as it would ever get?

Mr. Nash. No; I don't think it is as large as it would ever get. It is as large as we find it now. Spruce is of young growth in the low, swampy country.

The CHAIRMAN. Has that country been cut over?

Mr. Nash. No.

The CHAIRMAN. How old are these forests?

Mr. Nash. Well, probably seventy-five to a hundred years.

The CHAIRMAN. What was there before?

Mr. NASH. Lakes or low land. The spruce came on as they dried off. Maybe if I put it two hundred years I would be nearer right.

The CHAIRMAN. Whether it is seventy-five or two hundred years

doesn't cut much figure?

Mr. Nash. No.

The CHAIRMAN. Your theory, then, is that these lakes have been drying off?

Mr. Nash. Oh, yes.

The CHAIRMAN. In the last fifty or a hundred or two hundred

Mr. Nash. Yes. sir.

The CHAIRMAN. What makes you think that; upon what do you

Mr. Nash. There is every evidence of it from the old stumps and river banks and things of that sort.

The CHAIRMAN. If that should keep on the whole country would

dry up before long.

Mr. Nash. Not for a long time. It might if it kept on.

The CHAIRMAN. It is drying up pretty fast right here now?

Mr. Nash. Yes.

The CHAIRMAN. Do you think that these spruce forests up there have grown there since that territory became a part of the United

Mr. Nash. Oh, no. That has always been the United States—not always—how many years?
The Chairman. It is part of the Northwest Territory.

Mr. Nash. I think they were growing there long before that, some of the spruce trees, but the great growth I think has been in the last hundred years—all of these smaller spruce that stand to-day.

The CHAIRMAN. Is that land up there good for anything else

except to grow forests?

Mr. Nash. Most of it is worthless for other purposes.

The CHAIRMAN. Does it belong to private individuals in the main? Mr. Nash. Yes, sir. The State has a great deal of it. The State owns a lot of land up there.

The CHAIRMAN. And the State has adopted or is adopting forest

conservation methods?

Mr. Nash. Yes.

The CHAIRMAN. They have a very good forester up there, haven't

Mr. Nash. I understand so.

The CHAIRMAN. With proper methods, that would tend very greatly to supply you and the Minnesota mills with spruce in the future?

Mr. Nash. If it could be held for that purpose, it would supply us for many years. Of course, the lumbermen are after it all the time and we have got to compete with them.

The CHAIRMAN. Up there now you take the spruce where they cut

ties, telegraph poles, and things of that sort?

Mr. Nash. Yes; we take it from the jobbers. The lumbermen can not very well compete with us, except where it is mixed with pine.

The CHAIRMAN. What is the character of the forests where you get the ties, telegraph poles, and pulp wood?

Mr. Nash. That is low ground and has a good deal of cedar in it, what we call cedar swamp.

The CHAIRMAN. That is arbor vitæ?

Mr. Nash. Yes.

The CHAIRMAN. White cedar?

Mr. Nash. Yes.

The CHAIRMAN. Mr. Norris, would you like to ask Mr. Nash any questions?

Mr. Norris. No.

The CHAIRMAN. Mr. Ryan, have you anything?

Mr. Ryan. No.

The CHAIRMAN. Is there anything you want to call attention to. Mr. Steele?

Mr. Steele. No.

The CHAIRMAN. Is there anything else you have in your mind?

Mr. Nash. No.

The CHAIRMAN. We are very much obliged to you.

Mr. Nash. Thank you. I am much obliged to you, gentlemen.

STATEMENT OF MR. GUY NASH.

Sworn and examined by the Chairman:

The CHAIRMAN. What is your position or occupation?

Mr. Guy Nash. I have charge of the timber lands of the Nekoosa Edwards Company.

The CHAIRMAN. Tell us about your timber lands.

Mr. Guy Nash. They have the main bulk of their hemlock and hardwood lands in northern Wisconsin. They also have some spruce lands on northern Minnesota.

The CHAIRMAN. Do you get much of your present supply of wood from your own land, or do you buy most of it?

Mr. Guy Nash. We buy mostly.
The Chairman. In the endeavor to save yours?

Mr. Guy Nash. To conserve our own timber as long as possible. The CHAIRMAN. What is the character of the hemlock lands in Wisconsin, your hemlock lands in Wisconsin?

Mr. Guy Nash. Of the soil, do you mean? The CHAIRMAN. Of the soil and the forest.

Mr. Guy Nash. The stand of hemlock is almost invariably mixed with other timber, hardwood for the most part. The soil must be fairly rich in order for hemlock to grow at all; and the stand is not usually heavy, nothing to compare with the white pine of the olden days.

The CHAIRMAN. Hemlock does not grow as thick?

Mr. Guy Nash. It grows much thicker, but much shorter. Or not much thicker; but very often white pine was as thick as it could stand on the land. It seldom grows as thick as that. It is invariably shorter than the white pine, so that the stand is much less per acre.

The CHAIRMAN. It doesn't grow as large?

Mr. Guy Nash. No.

The CHAIRMAN. It dies younger, doesn't it?

Mr. Guy Nash. Yes.

The CHAIRMAN. It rots at a much earlier age? Mr. Guy Nash. Yes.

The CHAIRMAN. What kind of hard woods do you get mixed in

Mr. Guy Nash. On our lands birch is the predominating hard wood.

The CHAIRMAN. Paper-leaf birch or white birch?

Mr. Guy Nash. Red birch.

The CHAIRMAN. What is that, the river birch?

Mr. Guy Nash. No. That is what we call here the water birch. It is a large birch and very favorable for lumber. It is used for interior finish and furniture and such purposes as that.

The Chairman. Don't you get any paper-leaf birch as far down

as this?

Mr. Guy Nash. I don't exactly know what you mean.

The Chairman. Canoe-bark birch.

Mr. Guy Nash. We have very little of that. We scarcely ever run

The CHAIRMAN. Paper-leaf birch is the kind that the bark peels

off from.

Mr. Guy Nash. We have little of that, but not much. There is more of such as we saw yesterday.

The CHAIRMAN. That is white birch?

Mr. Guy Nash. Yes, sir. The Chairman. Paper-leaf birch is the kind that grows in Minne-That is the kind they make Indian canoes from.

Mr. Guy Nash. We don't produce many canoes up there.
The Chairman. What are the kinds of hard wood that you have? Mr. Guy Nash. Besides basswood, we have elm, mainly soft elm, and a small amount of oak, and some ash, more ask than oak-very little oak, indeed.

The CHAIRMAN. What do you mean by the soft elm, water elm,

slippery elm?

Mr. Guy Nash. Not slippery elm. It is a distinct variety apart from the rock elm. It is used for lumber; furniture factories are buying it now as a substitute for oak, which is too expensive.

The CHARMAN. Where you cut your forest up there—I think your

father said you cut it clean?

Mr. Guy Nash. Yes. We only leave such stuff as is suitable for cord wood only.

The CHAIRMAN. What grows up on it after you cut it over?

Mr. Guy Nash. Brush, or if it was left for a sufficient length of time the reproduction probably would be poplar.

The CHAIRMAN. What kind of brush grows on it?

Mr. Guy Nash. Same as the hard woods that have been previously growing there—soft maple, hard maple, and some birch and elm, and basswood, also.

The CHAIRMAN. You are familiar with the forest in Minnesota, too? Mr. Guy Nash. Somewhat so, in a general way. I have not been up there myself as much as I have in Wisconsin forests.

The CHAIRMAN. Where are your spruce lands in Minnesota?

Mr. Guy Nash. Those I am not familar with. They were purchased while I was holding another position. In central Minnesota.

The CHAIRMAN. How much land do you have up there?

Mr. Guy Nash. About 800 acres.

The CHAIRMAN. Up here in Wisconsin, about how much?

Mr. Guy Nash. About 45,000.

The CHAIRMAN. Have you been up in the Canadian forests?

Mr. Guy Nasii. Not very much. I have been up in the northeastern end of Lake Superior, where the Clergues have their works, and in the Nipigon country.

Mr. Thomas E. Nash. You have been on the north shore of Lake

Nipigon, haven't you?

Mr. Guy Nash. I said Nipigon country.

The CHAIRMAN. What kind of forests do they have on the east shore of the lake?

Mr. Guy Nash. As far as I saw them, the timber seemed to be almost entirely spruce in scattered stands.

The CHAIRMAN. What would be between those scattered stands?

Mr. Guy Nash. Scrubby timber of the Christmas-tree type.

The CHAIRMAN. Have you been farther east or north?

Mr. Guy Nash. No farther north than the north shore of Lake Nipigon and no farther east than the Georgian Bay country.

The CHAIRMAN. Is the Georgian Bay country, Nipissing Lake

country, etc., covered with spruce forests?

Mr. Guy Nash. In the Georgian Bay country I was never inland. Along the shores of the lake you see spruce scattered along all over. and my understanding is that the Lake Nipissing country is timbered with spruce. How heavily I do not know.

The CHAIRMAN. You could very easily get spruce from the

Georgian Bay country here?

Mr. Guy Nash. Oh, yes.

The CHAIRMAN. That is, the transportation would be comparatively simple if you had a good port over there, good harbor facilities?

Mr. Guy Nash. Yes.

The CHAIRMAN. Are you familiar with the spruce lands out West? Mr. Guy Nash. Somewhat so.

The CHAIRMAN. What about them?
Mr. Guy Nash. There is no doubt there is a great deal of spruce out there, and I do not think that there is any question but what it would be entirely suitable for paper making, and there is also other timber out there, which, to the best of my belief, would also be suitable for paper making, notably the white fir.

The CHAIRMAN. As I recollect, I may be mistaken, the Department of Agriculture recommends that white fir can be substituted

for spruce.

Mr. Guy Nash. I had understood that they had made some investigations as to a substitute in the sulphite process for spruce. I have not seen their recommendations. They have hemlock on the coast also, which seems to be very similar to our hemlock here, except as to size, and that probably could also be substituted for our hemlock

The CHAIRMAN. When you speak of the fir out there, do you refer

to what they call the Oregon fir?

Mr. Guy Nash. No. The Oregon fir I am not familiar with. I was never in the Oregon country.

The CHAIRMAN. The Oregon fir is largely the great timber out there that comes to us. We get large quantities of it.

Mr. Guy Nash. As I understand it, the Oregon fir is more like Norway pine in this country.

The CHAIRMAN. They substitute it in the market for white pine.

Mr. Guy Nash. The nomenclature of the timbers out on the coast makes it difficult for a person going in there strange to get them straight. It is different in the Montana and Idaho country than what it is in the western Washington district. For instance, their larch out there is, so far as I was able to ascertain, precisely the same as our tamarack.

The CHAIRMAN. Have your tamarack forests here died out any?

Mr. Guy Nash. No.

The CHAIRMAN. What have you to say as to the probable future

supply of spruce wood for the Wisconsin mills?

Mr. Guy Nash. I believe that there is a sufficient supply of spruce to last them for a good many years if it can be made accessible, and it is likely to be made accessible as the needs of the mills demand. It is getting farther and farther away all the time, which would mean that the cost would be greater.

The CHAIRMAN. Of course, the furnishing of pulp wood is merely incidental so far as cutting the main forests are concerned, merely

incidental to lumbering purposes, I take it?

Mr. Guy Nash. That is not entirely true. Both in past times in the north peninsula of Michigan and at the present time in Minnesota there are operators who devote a very large part of their attention to getting out the spruce wood.

The CHAIRMAN. Do they get into the large forest, heavy timber?

Mr. Guy Nash. The spruce does not ordinarily grow in very large bodies and always mixed with other material, all of which they must clean up as they go along.

The CHAIRMAN. I think we will have to go and examine some of

these spruce forests.

Mr. Guy Nash. You won't find a spruce forest. You will find

scattered bodies of spruce.

The CHAIRMAN. We had the testimony of an eminent man to the effect that there was a forest 800 miles long and 150 miles wide of spruce in Ontario. He gives this testimony from his personal knowledge.

Mr. Guy Nash. He did not say it was in Minnesota or Michigan

or Wisconsin.

The CHAIRMAN. In Canada.

Mr. Guy Nash. I have heard of similar forests to that in Ontario. The CHAIRMAN. This forest that you have up in Wisconsin—what do you call the name of the town?

Mr. Guy Nash. Shanagolden.

The CHAIRMAN. That is a typical Wisconsin hemlock forest?

Mr. Guy Nash. I think so.

The CHAIRMAN. Virgin forest practically?

Mr. Guy Nash. Well, you know that another Congressman defined a virgin forest as one where the hand of man never set foot. That would not apply to these forests, because large pine, which was scattered through there, has been cut out.

The Chairman. You say the large pine has been cut out.

would mean they would not go through and take just an occasional

tree, would they?

Mr. GUY NASH. That was the nature of most of the pine in that country. It was a tree here and there mixed in with hard woods and

hemlock and growing that way on that rich soil; the trees were very large and tall and the lumber desirable, and they could afford to log more scattered timber of that nature, because the resulting lumber was of such high quality.

The CHAIRMAN. That has been taken out? Mr. Guy Nash. Yes, sir.

The CHAIRMAN. And except for that it is practically a virgin forest?

Mr. Guy Nash. Yes, sir.

The CHAIRMAN. If we went up there we would see the conditions which prevail in the Wisconsin hemlock forests?

Mr. Guy Nash. Yes, sir.

The CHAIRMAN. Have you anything else that you wish to state? Mr. Guy Nash. I have a pamphlet of the State of Minnesota here that I think might be interesting.

The CHAIRMAN. We would like to have it. Mr. Guy Nash. There are some pictures of our works.

Mr. RYAN. Have you got good shipping facilities from your timber lands in Minnesota and Wisconsin?

Mr. Guy Nash. As to Wisconsin, yes. As I say, I am not familiar

with our Minnesota holdings.

The CHAIRMAN. I wish you would describe the photographs to the stenographer so that they can be identified. Tell what they are and let them be marked.

The photographs were marked, respectively, 1, 2, 3, and 4.

Mr. Guy Nash. No. 1 is a logging road to which the hemlock has been skidded and from which they are now hauling the hemlock logs to the railroad and shows the skidway of hemlock by the side of the road with a gasoline hoisting engine loading the hemlock on the logging sleigh. The gasoline hoisting engine was gotten up by myself, and is very successful. No. 2, skidway of hemlock logs. No. 3, one of our barns in the woods, showing the horses and teamsters. No. 4, a sleigh load of hemlock logs for pulp wood.

The CHAIRMAN. What is a skidway?
Mr. Guy Nash. Logs are laid down on the ground for the timber to rest upon and the logs are carried upon them over poles which are called skidways or rolls.

Mr. Steele. Adjacent to the railway. Mr. RYAN. That is to assist in loading?

Mr. Guy Nash. Yes, sir.

Mr. Ryan. What sort of timber is that standing there [referring

to photograph No. 1]?

Mr. Guy Nasii. Hard-wood timber from which the hemlock has been cut out. If the ground plan of the Nekoosa mill, which you saw yesterday, would be of any service, we would be very glad to send one to you.

The CHAIRMAN. I think we might be able to use that possibly. Is

there an increasing demand for hemlock for sawmill purposes?

Mr. Guy Nasii. It seems to be just about stationary.

The CHAIRMAN. Is hemlock used more in lumber now than it was

ten years ago?

Mr. Guy Nash. The reports, I think, show that in the last five or six years the production has just about been stationary.

The CHAIRMAN. You have some figures here that you said you

would give us.

Mr. Guy Nash. This is a recent book gotten out by the State of Minnesota, by the State drainage commission, indicating the swamp and marsh land owned by the State of Minnesota in the different counties where they own land. There are plats showing their lands and indicating swamp lands for most of the northern counties of Minnesota, including Beltrami Pass, Itasca, St. Louis, and where they have no map they have a list of their land in Lake and Cook counties. They also have a tabulated statement showing the swamp land of the State owned by the State and private individuals, indicating that there is 2,468,678 acres of swamp land owned by the State and 4,168,316 owned by private individuals, making over 6,000,000 acres of swamp land in the northern part of Minnesota and nearly all of which would bear spruce timber.

The CHAIRMAN. Of course, swamp lands is a definition term of the Land Office in Washington. Surveys are often very careless. Do they include or exclude the larger proportion of those lakes in

Minnesota?

Mr. Guy Nash. I take it that these statements are pretty close, because I see in looking at the charts that they show some State land which is not marked as swamp land, but, as I understand it, the lands which the State owns were acquired under the swamp-land act from the United States Government.

The CHAIRMAN. Land which the State owns would be acquired in two ways—first, the school lands, the sixteenth and thirty-sixth sections, probably, and the swamp lands. Of course, they acquire a

great deal of land under the title of swamp land.

Mr. Guy Nash. As this was prepared by the drainage commissioners of the State, they made an endeavor, probably, at any rate, to get them separated.

Mr. RYAN. Does that acreage that you stated there include the

lakes?

Mr. Guy Nash. I couldn't say as to that. I have not the information. They claim, by the way, that almost all of that land is susceptible of being drained and will be suitable for cultivating purposes

when it is drained.

The CHAIRMAN. Yes; that is one of the projects of the conservation of resources commissions in the Agricultural Department. They want to drain the Everglades of Florida and the swamp lands of Minnesota, and at the last session of Congress we passed a bill authorizing the State of Minnesota to levy a special assessment on, I think, lands owned by the Government of the United States for drainage purposes in order to organize drainage districts. I have been up in that country and I have no doubt that a large proportion of that land will be drained, but I do not think it would all be used if it were not drained.

Mr. Guy Nash. Certainly not, because there must be some of it

that has nothing on.

The CHAIRMAN. The swamp land, I mean. That land might be worth more to produce spruce wood than anything else; a great deal of it, possibly?

Mr. Guy Nash. Possibly.

The CHAIRMAN. It don't require the richest land for spruce, does

it, if you have plenty of moisture?

Mr. Guy Nash. No; spruce will often grow on high land. In fact, the best of the spruce comes from high land; the trees are larger and better, but usually not in so thick stands.

The Chairman. We have very fine spruce growing on our own home place in Illinois on high rich soil that is worth \$150 an acre.

Mr. Guy Nash. You are not raising it for making paper.

Mr. Guy Nash produced an estimate by the American Lumberman. under date March 7, 1908, page 65, showing the cut of 1907 as 1,218. 295,000 feet and stocks on hand 611,135,000 feet [referring to hemlock 7.

The CHAIRMAN. What do the figures under the term stocks have

Mr. Guy Nash. The amount of sawed lumber in the yards of the manufacturers.

The CHAIRMAN. There isn't very much variation in the wood cut from 1901 to 1907.

Mr. Guy Nash. It figures practically the same, 1901 being 1,264. 000,000 and 1907 1.280,000,000.

Mr. Ryan. Where was that cut?

Mr. Guy Nash. In the lake States, Wisconsin and Michigan, there

being no hemlock in Minnesota.

The CHAIRMAN. It says the hemlock product of the district west of Chicago including the greater part of Wisconsin was 568,000,000 feet, the cut in the Chicago district was 428,000,000 feet, making a total of 996,000,000. The output east of the Chicago district was 221,000,000 feet, making the grand total given. Chicago and the west of Chicago districts produced a little over 75 per cent of the hemlock.

Mr. Ryan. How are these figures compiled?

Mr. Guy Nash. The American Lumberman every year, for, I guess.

twenty-five or thirty years—
The CHAIRMAN. Reports furnished the American Lumberman by operators showing the quantities of northern pine lumber cut and stocks on hand and so forth.

Mr. Guy Nash. They send out requests to all the manufacturers

they can find.

Mr. Ryan. Those requests are pretty generally complied with?

Mr. Guy Nash. Yes.

The CHAIRMAN. What have you to say in reference to the probable

future hemlock supply in Wisconsin?

Mr. Guy Nash. I do not think that hemlock is reproducing to any considerable extent, so that when the present forests are cut, the hem-

lock supply will be ended for all time.

The CHAIRMAN. If the hemlock forests are not reproducing and you do not get a cheap supply in some other place soon, that would naturally mean the constant enhancement in the value of the forests that are left?

Mr. Guy Nash. Naturally.

The Chairman. Because as you decrease the quantity you increase the demand?

Mr. Guy Nash. Yes. sir.

The Chairman. And the cost usually?

Mr. Guy Nash. Yes, sir.

The CHAIRMAN. How dense is this hemlock timber, take it in the

forests up here?

Mr. GUY NASH. Our own forests, counting in the land which has no lumber on at all, the total timber will run between 5,000 and 6,000 feet to the acre, of which practically two-thirds is hemlock, and other lands I have been told that it is running heavier than that to the acre.

The CHAIRMAN. That would be in spots, or generally?

Mr. Guy Nash. In spots. A tract will run very heavy possibly, and 2 miles away it will be light again.

The CHAIRMAN. How many feet is a cord?

Mr. Guy Nash. We figure 2 cords to the thousand.

Mr. RYAN. What did that land cost you?

Mr. Guy Nash. We bought the main bulk of it at \$4.50 an acre.

Mr. RYAN. You do not buy any of your hemlock, do you, that you use here?

Mr. Guy Nash. Yes, we buy most of it that we use here.

Mr. Ryan. What is the difference in cost between that that you buy from the wood-producing companies and that that you cut from your own forests?

Mr. Guy Nash. There is not much difference in the cost. We buy a great deal of wood from the settlers, who figure their own labor at practically nothing, which makes the purchased wood very cheap. Clearing off their lands.

The CHAIRMAN. That is clearing it off for agricultural purposes?

Mr. Guy Nash. Agricultural purposes. There is lots of balsam and tamarack in this State which at present is scarcely used at all for paper-making purposes and which will undoubtedly be substituted as other timber becomes scarcer and more expensive.

The Chairman. Tamarack does not work up very well into pulp,

does it?

Mr. Guy Nash. No, it does not work up very well. It is hard to handle. When it dries out it gets very hard and is hard to work in the wood room and hard to manufacture.

The CHAIRMAN. We had a sample of pulp before us in Washington; we had several samples, made from Michigan tamarack, and this statement was made about it. There were two samples, I think; one rather a brownish shade, and one yellowish. It was stated that that result was not from coloring but from the cooking process.

The fiber left is about equal to that of scrub pine. The wood reduces with great difficulty, and in the case of the two samples, the amount of screenings was very large. The difficulty, however, does not seem to be the lack of penetration of acid into the chips, but rather the inability of the acid to dissolve the pitch and resin in the wood, and on this account it is difficult to get the pulp well disintegrated on the blow-off. (Address by Dr. H. Stanley Bristol. Hearings, p. 1465.)

Mr. Guy Nash. In that connection you ought to remember that twelve or fourteen years ago people thought that they couldn't use hemlock in the sulphite process at all, they had to have spruce, and fifteen years ago thought they could not make news print of it without using poplar wood, and we can expect some improvement in the process in the future since there has been a steady improvement in the past.

The CHAIRMAN. I fully agree with you about that. I haven't any doubt that we will soon be making pulp out of any wood that is cheap and can not be used for lumber, no matter what it is.

Mr Guy Nash. Under the soda process, which is not used in the

West, they can make pulp out of almost anything.

The CHAIRMAN. They are experimenting in Washington with the aspen or what you call the poplar out here. Do you know whether your people have tried that?

Mr. Guy Nash. In the sulphite process?

The CHAIRMAN. Yes.

Mr. Guy Nash. I never heard of their doing it, did you?

Mr. THOMAS E. NASH. Very little. It is too soft and mushy.

The CHAIRMAN. They are experimenting with a large number of different woods, including the yellow poplar, box elder, soft maple.

Mr. Nash. The yellow poplar is different from our poplar up here.

Isn't that the big poplar that grows in West Virginia and Kentucky! The CHAIRMAN. Yes; that is not the cottonwood. Your poplar

that grows around here—this white-bark stuff—is aspen.

Mr. Guy Nash. The balm of Gilead that used to be used for shade trees in this country is more likely cottonwood tree that grows to the south of us.

The CHAIRMAN. Balm of Gilead is applied to a number of species—

yellow poplar and cottonwood wood.

Mr. Guy Nash. I never heard it used in connection with yellow

poplar at all.

The CHAIRMAN. Balm of Gilead usually is a cottonwood tree, but it is different from the ordinary cottonwood tree—not quite as hardy, I guess, although it does grow up in Canada. It is hardy so far as temperature is concerned. You do not have any trouble with the balsam.

Mr. GUY NASH. It would be better to ask Mr. Steele or Potter about that. They have been up against it.
Mr. Thomas E. Nash. We handle balsam without any trouble.

STATEMENT OF MR. G. F. STEELE, OF PORT EDWARDS, WIS.

Sworn and examined by the CHAIRMAN.

The CHAIRMAN. What is your position?

Mr. Steele. Secretary of the Nekoosa-Edwards Paper Company. in charge of the manufacturing and selling.

The CHAIRMAN. What is the output or capacity of your combined

mills?

Mr. Steele. One hundred and fifty tons of paper, a maximum of 120 tons of sulphite pulp, and about 90 tons of ground-wood pulp a

The CHAIRMAN. What do you make mostly—news-print paper? Mr. Steele. We make fiber and manila papers—about 100 tons a day. It is the largest single producing mill in this country on that paper, and 50 tons a day of news-print paper.

The CHAIRMAN. How much wood do you use in the course of a

year? Mr. Steele. We use 30,000 cords of spruce and at a maximum of about 90,000 cords of hemlock, some tamarack and balsam included in these figures.

The CHAIRMAN. We will be glad to have you make any statement

that you wish to.

Mr. Steele. In regard to the amount of spruce wood bought on this river, I have some figures which were made showing the amount of hemlock and spruce which would be used if the mills were running full in this territory. I have not those figures with me now, but as I remember it, the amount of spruce, the maximum production on this river would amount to about one hundred and twenty thousand cords and for hemlock about the same quantity. Speaking about the Canadian situation, Mr. Chairman, and to relieve the Wisconsin paper mills of the odium of having it said that they had gone ahead and built their mills without regard to the future wood supply, I desire to state that this matter came up in 1883 as to the supply of spruce pulp wood in Wisconsin. At that time it seemed to us that we had a large supply for the future because the mills were few in number and small in production and we did not look far into the future to appreciate the enormous growth in the industry, requiring a much larger amount of spruce wood than was then used. But in spite of that, for instance, we had a concern by which I was employed at that time which sent an expert to Canada to ascertain the possibility of future supply from Canada in case the Wisconsin supply played out. They went by steamer to Sault Ste. Marie and then chartered a small vessel and went up the east coast of Lake Superior, stopped at the Agawa, the Batchewung and the Montreal rivers, and going up into these streams as far as they could get with small boats. This was twenty-five years ago and the country was very wild. They found large tracts of spruce and they brought back samples, disks cut across the trees, of such spruce as we had never seen in Wisconsin, and the samples were exhibited in Appleton and created considerable comment at that time. It seemed to us that there was no question but what with our own supply in Wisconsin, and our limited use of it, owing to the small size of our mills and the apparently abundant supply of spruce in Canada, that the future was assured to us as to the wood supply.

We did not look forward at that time to a prohibition of export of pulp wood from crown lands in Canada. That thing was undreamed of at that time. There is unquestionably a large amount of spruce timber to the east and north of Lake Superior and to the west of Lake Superior. We have had large tracts offered us and have knowledge of other tracts. There are certain concessions which are now occupied by mills in Canada making wood pulp. For instance, Spanish River concession, as I understand it, covers six thousand square miles. They make very large claims as to the amount of pulp wood on their concession. Further east from them are the Imperial Mills at Sturgeon Falls. They have another concession from the Canadian government. Their concession is not so large nor is it so heavily timbered with spruce, but it is said to contain a very large cut of spruce timber. A little farther east and to the north is the Montreal River concession, which is owned by J. R. Booth, at Ottawa. He has to drive his timber, I think, about 500 miles to get it to his mills at Ottawa. It is a long, slow drive, taking probably two years from his concession to his mills. There are other large tracts which have been offered to us, but being unable to bring the wood over here and being unwilling to establish ground wood mills over there, we have not taken advantage of them. To the west of Lake Superior there is a good deal of timber, as Mr. Nash has already testified. There is a large mill projected at Kuchicing, sometimes known as International Falls. It is on the boundary line, Fort Francis on one side and International Falls on the other.

Mr. RYAN. What about the Georgian Bay district?

Mr. Steele. I do not know so much about the Georgian Bay district, but we had men in 1883 on the Serpent River, which is one of the rivers entering into the Georgian Bay, and they reported that they found as good pulp wood and as much pulp wood on the Serpent River as on the rivers farther north.

Mr. Ryan. There is a big ground-wood mill on Georgian Bay.

isn't there?

Mr. Thomas E. Nash. At Sault Ste. Marie there is one.

Mr. Steele. There is one at Webbwood, Espanola.

The CHAIRMAN. That is on the north passage from Georgian Bay?

Mr. Steele. Yes, sir.

The CHAIRMAN. Is their concession in that locality, the Spanish River concession?

Mr. Steele. Yes, sir. Mr. Ryan. They have got 6,000 square miles?

Mr. Steele. Six thousand square miles, they claim. That is what they claimed to us to have. Here is where Mr. Booth's concession is right here. [Indicating on the map.]

The CHAIRMAN. That is around Lake-

Mr. Steele. Just north of Lake Temiscamingue. We have had other concessions offered to us around Lake Babittiti. You will notice how far Mr. Booth has to drive his timber.

Mr. Ryan. Has he the exclusive use of the river?

Mr. Steele. Oh, no. There are all sorts of timber coming down that river at the same time.

Mr. Norris. He told me he had 6,000 square miles in Ottawa River

The CHAIRMAN. I suppose each man that has a concession up there says that it is 6,000 square miles.

Mr. Steele. That is the fashion.

The CHAIRMAN. There are a good many 6,000 square miles up

Mr. Steele. Yes; it is all outdoors clear to the North Pole. have had a concession offered to us around Lake Nipigon. Mr. Guy Nash has been in that territory there and there is considerable spruce They claim a very large amount, but we have never examined it closely enough to ascertain whether their claims are correct or not. There are other opportunities for spruce timber north of Lake Superior, Mr. Chairman. There is a movement on foot to build a railroad from some point on Lake Superior to Hudson Bay, probably to the mouth of Albany River, which is a very large stream, going into James Bay at this point here [indicating upon the map], and there is so much talk about the building of a road across here and affording an easy and prompt outlet during the summer months for grain from the Assiniboine and Saskatchewan country in the west that it is probable that road will be built before a great while.

Mr. RYAN. Where will they take the grain to?

Mr. Steele. Right in here [indicating].

Mr. Ryan. What do they want it there for?

Mr. STEELE. To take it to Europe through Hudsons Bay, which they claim is the shorest route. It is said there is an enormous amount of pulp wood along the Albany River and north of it. the paper men-have been approached in this district by the promoters and people who are back of that proposition and they have made very favorable propositions in regard to pulp wood. I do not know how they would get around prohibition of export, for I presume that is in the Province of Ontario, although it may be north of it. We are not so poverty stricken on the pulp-wood question as would seem at first blush, but we are anxious to conserve the amount of pulp wood in the United States, in the States of Michigan, Minnesota, and Wisconsin, which still remains and piece it out as long as possible. This year we received from Wisconsin four times as much spruce as we received from Ontario or from Canada; more than we have for many years. During the boom times of the past few years the men have been kept at more remunerative occupations and have not gotten out the spruce which remains in the State, and this year we have obtained four times as much as we got from Ontario and very much more than in previous years.

The CHAIRMAN. That spruce that is cut in the State, is that mainly

cut by settlers?
Mr. STEELE. Yes, sir.

The CHAIRMAN. Upon their own land?

Mr. Steele. Yes, sir. About the only hope that we have at present for cheaper pulp wood, and, consequently paper at the prevailing prices, in order to make both ends meet, would be to augment our own local supply with the pulp wood from Canada. And, of course, under the present laws, we are unable to obtain it in any large quantity owing to the prohibition of export from Crown lands. It does not seem quite fair to us that there should be a proposition to remove the duty on paper and at the same time keep us cut off from a supply of pulp wood which we know exists and thereby encourage the impoverishment of American forests. It strikes us as poor economic policy.

The CHAIRMAN. What would be your view as to your manufacturing paper here if you could get pulp wood here without any restric-

tion from Ontario and the duty taken off?

Mr. STEELE. I do not think it would be proper to take the duty off from the manufacture of paper. It is no more than a revenue duty now and this Government has got to raise revenue from some source or other and it is about as low as you would put it if you wanted a revenue duty.

The CHAIRMAN. It is a revenue duty in a way, but it does not pro-

duce very much revenue.

Mr. STEELE. It probably will produce more in the future than it

has in the past.

Mr. Ryan. What effect would the removal of the duty on wood pulp have, provided you have Canadian timber admitted here free?

Mr. Steele. It would cheapen the cost of production of paper in this territory.

The CHAIRMAN. How about sulphite?

Mr. STEELE. The hemlock supply is very large in this territory. The Cleveland Cliffs Iron Company, of Munising, Mich., has about 2,000,000,000 feet of standing hemlock. Prominent stockholders in the Cleveland Cliffs Iron Company owned the Munising Paper Company, and the Munising Paper Company is said to have 500,000,000 feet of standing hemlock of its own, thus making a possible supply to that company of 2,500,000,000 feet of standing hemlock.

Mr. Ryan. How long would that last?

Mr. Steele. That company must use 50,000 cords a year, at the outside. It will take twenty years to use up a billion feet.

Mr. Ryan. They have got about fifty years' supply then?

Mr. Steele. According to that. Mr. RYAN. What do they make?

Mr. Steele. Fiber papers. Mr. Ryan. What is their output? Mr. Steele. About 60 tons a day.

Mr. Ryan. Where is that standing timber that you speak of located?

Mr. STEELE. Right south of Munising.

Mr. Ryan. They own an island there, I know.

Mr. Steele. Yes, sir. The Chairman. They are beginning to cut that timber up there for all purposes now, aren't they?

Mr. Steele. Not on that land.

Mr. Ryan. They own Grand Island entirely?

Mr. Steele. Yes, sir. There are other large tracts of standing hem-lock all through the northern part of the State of Wisconsin. The Soo Railroad people claim that there is 3,000,000,000 feet of standing hemlock north of and tributary to their line in Wisconsin.

The CHAIRMAN. It is not very long ago when they claimed that the supply of white pine in Michigan and Wisconsin was inexhaustible?

Mr. Steele. Yes, sir.

The CHAIRMAN. It is only recently that they discovered that it was not?

Mr. Steele. Yes, sir.

The CHAIRMAN. Now, this hemlock is largely used for sawmill purposes?

Mr. Steele, Yes, sir.

The CHAIRMAN. It wouldn't take very long to clean it up if every-

body went for it, would it?

Mr. Steele. Of course, it depends upon how fast they cut it, how quick they would clean it up. I suppose twenty years will see a good deal of it cleaned up.

Mr. RYAN. You do not think that the manufacture of sulphite in

this section would suffer at all if the duty was removed?

Mr. Steele. Do you mean the duty on sulphite?

Mr. Ryan. Yes.

Mr. STEELE. I certainly do.

Mr. RYAN. They would suffer in this section?

Mr. Steele. Especially the duty on European sulphite.

Mr. Ryan. I mean as between the United States and Canada.

Mr. Steele. I should think it would be somewhat harmful to us to have the duty on sulphite removed, because they make their sulphite out of spruce over there and they get a very much larger yield out of a cord of wood than we do out of a cord of hemlock, and consequently the cost of wood for a ton of pulp is less than ours.

Mr. Ryan. How would you calculate that the Canadian people could be induced to remove that prohibition of 25 cents a cord, or whatever it is, on wood from the Crown lands?

The CHAIRMAN. Absolute prohibition in Ontario.

Mr. RYAN. Yes—excepting some concession would be made to

Mr. Steele. I think probably some concession would have to be made to them.

Mr. Ryan. What sort of a concession have you in mind, if any?

Mr. STEELE. So far as we are concerned, we would not object seriously to seeing the duty on ground-wood pulp removed.

Mr. RYAN. But you would object on sulphite?

Mr. Steele. Yes, sir.

Mr. RYAN. And you would object to the removal of the duty on

paper?

Mr. Steele. Yes, sir. The competition from Sweden and Norway, Finland, and Russia on sulphite is very much more to be dreaded by us than the competition from Canada. Canadians have the same dread of that competition, although I think the trouble is at its worst now because they are beginning to realize over there that their stock of wood is not inexhaustible.

Mr. Ryan. If they want any concession made in a proposed tariff bill on sulphite, you would want nothing to be included on the free list except that from Canada?

Mr. STEELE. Yes, sir, surely. In fact, I do not think that you would get any concession out of Canada on the pulp-wood situation by a trade unless it were arranged that our tariff on European sulphite should be increased. They are very much alarmed in regard to European competition on sulphite. They have gone ahead abroad and built a great many new mills, which is evidence that their cost must be very low. We understand that their labor costs are exceedingly low. They are better advanced in the method of making sulphite pulp than we are, because they have a great deal more technical help at a cheap price. From what we know of their cost, they are lower than we are in several important particulars. Their wood is cheaper, their labor is very much cheaper, they burn pyrites very largely for the manufacture of acid, and their technical processes are a great improvement upon ours. The consequence is that they are able to come into this market and offer pulp at a price which practically knocks us out, if the duty were removed.

Mr. RYAN. On sulphite? Mr. Steele. Yes, sir.

Mr. RYAN. What about their supply of raw material that goes into

the manufacture of sulphite?

Mr. Steele. All I know about that is what I have read in the trade book. I was reading last night of the situation in Norway and Sweden and the enormous growth of the industry in the past few years and also the tremendous growth in Russian Finland, which has resulted in almost a crash in the market over there. For strong unbleached and easy bleaching pulp, the market for the pulp is held up strong, but on the lower grades there has been a decided slump in the recent past, something that we have been looking for for the past year. We could not understand how they could keep on building mills at the rate they were building them without overdoing the market, and they have apparently succeeded in doing that now.

Mr. Ryan. What sort of wood do they use there?
Mr. Steele. I am not competent to testify on that.
Mr. Ryan. You don't know as to their supply?

Mr. Steele. No, sir. I have talked with men who have visited their mills and they state that they have very good wood and very cheap wood. They have got water powers and their wood is very accessible to their mills.

The CHAIRMAN. They do not have any such water powers there

in profusion as we have, do they?

Mr. Steele. I think they have in Sweden and Norway. Some years ago when I was with the International Harvester Company, I sent Mr. B. A. Kennedy, my first assistant, abroad to see about the establishment of a plant in Norway. He went all over the country and was offered some very fine powers. We finally established a plant at Norrkoping, which is now in successful operation. And he reported that there were a large number of very heavy and desirable water powers which had been offered him; that the country was traversed by canals, making transportation very cheap, and that the rivers were not of great length and very accessible and easy to improve. I think they are very much favored in their manufacturing situation by their transportation facilities by canals all through the country and by the large powers which are easy to improve and cheap to improve, adjacent to the wood supply.

The CHAIRMAN. A river which is not of great length unless it has a good lake reservoir is not apt to have water power during the entire

year?

Mr. Steele. They have many lakes. They have good reservoir

supply and conserve the water over there very carefully.

The CHAIRMAN. You say they can manufacture over there cheaper because they have more advanced methods than you have. What

do you mean by that?

Mr. Steele. The technical methods are better than ours. They go into details more carefully than we do. The men that we bring over here do not seem to succeed here, and those of our trade who have visited the foreign mills, men like Mr. Stebbins, of the Stebbins Engineering Company of Watertown, N. Y., who is acknowledged to be a past master in the art of sulphite making, M. N. Jones, of the Katahdin Pulp and Paper Company of Lincoln, Me., who testified before you at Menasha the other day, another expert in the sulphite business, Mr. Theodore B. Burgess, who used to operate the Burgess Sulphite Fiber Company at Berlin, N. H., and other intelligent and able men who know the sulphite business, all agree that the foreign methods are very much better than ours.

The CHAIRMAN. Why don't we adopt them?

Mr. Steele. It is largely a question of technical help and of close details to business. We look too closely to the output rather than the quality. We rush things too much and do not watch the quality as closely as they do over there.

Mr. RYAN. Ought that not to have the effect of lessening the cost

of your product, rushing it through?

Mr. Steele. It should; yes, sir. But you take it on the sulphur and lime and that sort of thing; they have worked out the use of

pyrites, and that has never been a success in this country and has been tried.

Mr. RYAN. What is pyrites?

Mr. Steele. Iron pyrites. They use copper pyrites over there a good deal. It is found in iron mines and copper mines. It is a sulphur combined with some kind of metal. That has been tried in this country a number of times. Mr. Warren Curtis, formerly of the International Paper Company, tried it at Palmers Falls. I think it was also tried at the Soo, was it not, Mr. Nash?

Mr. THOMAS E. NASH. No; they did not try it there. They tried

nickel ore, but not iron pyrites.

Mr. Steele. It has been tried a number of times. We have never been able to work it out yet. Mr. George F. Harding, one of the ablest paper and sulphite mill architects in this country—I wrote him about it a while ago, and he said that the efforts which had been made in this country were not a success and he doubted whether we would be able to make a go of it. Mr. Warren Curtis is interested in the new mill to be built at International Falls. His son told me they should not attempt to put in the pyrite process there.

The CHAIRMAN. What advantage is it; what object is it?

Mr. Steele. Very much cheaper sulphur, and sulphur is one of the principal items of the cost of sulphite pulp. If you can get your gas cheaper, you can make sulphite pulp cheaper.

The CHAIRMAN. I should think it would cost more, unless you were right at some place where they take out iron pyriates; it would cost

more to convert than buy the sulphur.

Mr. Steele. Pyrites is used very largely in this country in the manufacture of sulphuric acid. In Sweden and Norway and Germany they bring the pyrites by boat practically to the doors of the mills. It is very cheap transportation and they get something out of the matter that is left. If it is copper pyrite, they get quite a good deal out of it.

The CHAIRMAN. They make a superior quality of sulphite?

Mr. Steele. Yes; they do; and they make some low grade, too, but they make higher grade sulphite than we make anywhere in this country, and there are certain grades that can not be bought in this country, because they are not manufactured here at all. You take one concern, the Waldhof Company; it makes pulp that is made nowhere else in the world. It is a higher priced pulp than the prices we ask, and paper makers who make fine papers can afford to pay for it, because it gives them something they can not get in this country. They go to considerable pains in the way of picking over the chips with girls and sorting the pulp after it is made. They do things that we do not attempt to do at all in this country. There is only one mill in this country attempts anything of that sort. That is at Port Huron, Mich.

Mr. RYAN. Coming back to Wisconsin again, do the ground-wood manufacturers here in Wisconsin come into competition in this mar-

ket with Canadian ground wood?

Mr. Steele. Yes, sir.

Mr. Ryan. With what results?

Mr. Steele. If it were not for the Canadian competition the price of ground-wood pulp would undoubtedly be higher here.

Mr. RYAN. What as to the sulphite?

Mr. Steele. We are in competition with Canadian makers and with the foreigners all the time.

Mr. Ryan. In this market?

Mr. Stelle. Yes; right in this market; right in this town.
The Chairman. We visited yesterday with you and other gentlemen here the Nekoosa mill, Port Edwards mill, the mill of the Consolidated Pulp and Paper Company, and the mill of the Grand Rapids Pulp and Paper Company.

Mr. Steele. Yes, sir.

The CHAIRMAN. Those are the four principal mills in this immediate vicinity?

Mr. Steele. Paper mills; yes, sir.

The CHAIRMAN. What is their total output, do you remember, or capacity?

Mr. Steele. About 250 tons of paper a day.

Mr. Simon. About 275, I think, would be nearer.

Mr. Steele. 265.

Mr. Simon. There is the Centralia.
Mr. Steele. With that it would be about 290 tons a day—with the Centralia mill that you did not visit yesterday.

The Chairman. I mean the mills right in this vicinity.

Mr. Steele. 290 tons a day, approximately.

The CHAIRMAN. That would mean the consumption of about how much wood in the course of the year?

Mr. Steele. 120,000 cords of spruce and 120,000 cords of hemlock

for the entire valley.

Mr. Thomas E. Nash. That can not be right, Mr. Steele. There is the Brokaw.

Mr. Steele. I left the Brokaw out entirely on sulphite. The Brokaw makes about 40 tons a day, don't they, Mr. Nash?

Mr. Thomas E. Nash. More than that. About 160,000 cords.

Mr. Steele. Yes; about 160,000 cords of hemlock.

The CHAIRMAN. How many people do you estimate in this valley are dependent during the year upon these mills?

Mr. Steele. I have no data. Have you any on that, Mr. Nash? Mr. Thomas E. Nash. About 1,000 men at these 5 mills. Between

1,000 and 1,100 the year around. That is just the men at the mills, not taking into account the men employed at getting out wood.

The CHARMAN. Do you suppose it is practicable for us to obtain a statement showing the introduction of ground wood and sulphite in the manufacture of paper and the proportions that have been used from the commencement down to the present time?

Mr. Steele. I think that can be made up by men who have been in

business for the last twenty-five or thirty years.

The CHAIRMAN. Will you endeavor to get us a statement of that

Mr. Steele. I will try to do so with the cooperation of some of

our friends in the Fox River Valley.

The CHAIRMAN. Of course, the price of paper has decreased since the introduction of wood in its manufacture. Which was used first, ground wood or sulphite, here?

Mr. Steele. Ground wood. It was brought to Appleton by Bradner, Smith & Co., of Chicago, first, who owned a small ground-wood

mill, and the machines in that mill were brought from Germany, where the process was first developed commercially. They ground poplar wood and nothing else at first. When we first went into the business, in 1879, they were just beginning to use poplar ground-wood pulp in a small way. They were very careful not to put very much in the paper for fear it would spoil the paper. The western newspapers were small in size and limited in circulation, and much of the paper used was made from rags or from straw. The Chicago Tribune at that time was supplied from a mill at Batavia, Illinois, made very largely from straw pulp, and the mills in the central west supplied the papers at Cincinnati and other points. With the introduction of ground wood those mills went on to other grades and specialties, and the industry gradually grew and paper became cheaper, and spruce wood was brought in for use as ground wood, and ultimately the sulphite process was adopted and rags went out almost entirely for the use of the lower grades of paper, cellulose from wood being used in place of cellulose from rags.

The CHAIRMAN. We have been through several, to say the least. paper mills where they manufacture ground wood and sulphite and mix them together to make paper and the processes have some varia-

tions, but on the whole are very similar.

Mr. Steele. Yes, sir. The Chairman. Somebody might come along who would have an original idea on the subject and revolutionize the business?

Mr. Steele. Yes; that is possible.

The CHAIRMAN. It has been running on the same plane now for a good many years?

Mr. Steele. Yes, sir.

The CHAIRMAN. Maybe you are the man? Mr. Steele. It don't look reasonable to me.

The CHAIRMAN. Do the wood-pulp mills compete with the straw

mills in any way?

Mr. Steele. Only in a very limited way. There are some low grades of boards made which compete with the strawboard to some extent. There is no straw pulp now used in any large commercial quantities. There is a small amount of straw pulp imported from Germany where they still make straw more or less.

The CHAIRMAN. Straw is now used to make what?

Mr. Steele. Strawboard.

The CHAIRMAN. Which is cheap pasteboard.

Mr. Steele. Yes, sir.

The CHAIRMAN. Doesn't it have the same tensile strength that wood

pulp has?

Mr. Steele. I don't know about that, for it is so long ago since we made any straw paper in this part of the country. That was when I was a young chap going into the business, and I don't remember what the quality of the paper was. As I remember, it was very good paper that was made from straw, but it cost tremendously to work it up and the yield was small. I do not think that is liable to come into use again until the world's supply of wood is very much less

Mr. Ryan. The mills in this valley, what hours do they work during the week?

Mr. Steele. We run from Monday morning at 7 o'clock until Sunday morning at 7 o'clock, working two-tour system, thirteen-hour nights and eleven-hour days, changing every week.

Mr. Ryan. The mills are not unionized here?

Mr. Steele. No, sir. Open shop.

Mr. RYAN. Wages practically the same as in the Fox River Valley?

Mr. Steele. Yes, sir; if anything, a little higher.

The CHAIRMAN. Was your mill connected with the fiber and manila trust?

Mr. Steele. No, sir.

The CHAIRMAN. Have any relations with it?

Mr. Steele. No, sir. Mr. Nash refused to allow the concern to have anything to do with it whatever. They came here and endeavored to interest us in the proposition and we declined.

The CHAIRMAN. Do you desire to make any statement in reference

to the so-called Dean-Shibley proposition?

Mr. Steele. No, sir.

The Chairman. Does it look to you as though there was any likelihood of that going through?

Mr. Steele. No, sir. It looks like holding an inquest to talk

The CHAIRMAN (to Mr. Nash). If you have anything occur to you on this pulp-wood question, we would be very glad to have you write us about it. We will put any information that you send us in in connection with your testimony if we receive it in time, and if not, we will put it in afterwards.

Mr. Thomas E. Nash. Thank you. After a while I will think it

over, and if there is anything I will write you.

Mr. Steele. The chairman asked me about the foreign manufacturing methods. They not only beat us in technical matters, but they have better discipline in their shops, and they enforce the rules in regard to piecework methods more consistently and thoroughly than The Germans especially have advanced wonderfully in their shop practice in the past few years, partly through the efforts of their consular agent to get information and partly through the information obtained by representatives of the various trades who have been sent abroad to study in American factories and take our methods home with them, and partly through a realization that they had got to improve their methods if they were to compete with the American piecework methods. Mr. Kennedy, now division manager of manufacturing and patent business of the International Harvester Company, went over there some years ago looking over their methods and came back and reported that they had not only copied our piecework method but had gone us one better. The administration of their shops is better than the average in this country. They have adopted our special machines, which has enabled this country to lead in shop manufacturing methods, and with them the methods of paying for piecework, which also cheapens production.
The CHAIRMAN. Have you any trained chemists?

Mr. Steele. We have just started in with one now. We have had one, but he was promoted to a position as superintendent of one of our mills.

The CHAIRMAN. Do you suppose you could find a manufacturing enterprise of equal size in Germany that deals in any way with chemicals that does not have a number of trained chemists?

Mr. Steele. Never.

Mr. Ryan. They all have them?

Mr. Steele. Yes, sir.

Mr. Ryan. That is a distinct loss to the American manufacturer not to keep abreast with foreign manufacturers?

Mr. Steele. Yes, sir.

Mr. RYAN. If you want to enter into competition with the foreign markets?

Mr. Steele. Yes, sir.

The Chairman. Most of the other manufacturing enterprises in America now where they deal at all with chemistry are beginning to use trained chemists.

Mr. Steele. Yes. Beginning to appreciate the fact that if we are going to hold our prominence in the market we have got to devote more attention to the technical end of our business.

The CHAIRMAN. I suppose the steel company maintains a large

chemical college?

Mr. Steele. Yes, sir. They are all the time bringing forward young men from technical schools to occupy positions of prominence in their business.

Mr. Ryan. The steel mills are doing that?

Mr. Steele. Yes, sir. Mr. Thomas E. Nash. Haven't you a chemist from Sweden?

Mr. Steele. He has been promoted to superintendent. All the technical processes in the steel business are far ahead of those in the paper business. The paper business seems to me, after having been out of it for thirteen years, very slow to take advantage of the possibilities.

The CHAIRMAN. I do not like to express an opinion and do not like to have an opinion on any subject that I know as little about as I do about the paper business, but in going around to the paper mills it has seemed to me that gentlemen have relied more upon that that would come into the untrained mind of a day laborer than that would come into the mind of a trained scientist.

Mr. Steele. It impresses a man who has been in other lines of business where they carry out details more carefully and produce greater economies, the tremendous waste in the paper business.

is capable of great development on the manufacturing side.

Mr. RYAN. Undoubtedly, taking advantage of many of the things which you have in mind in connection with the production of paper would put the American manufacturer of paper in a better position to compete, even if there is some apparent hardship placed upon him as the result of a revision of the tariff.

Mr. STEELE. I think we could adopt a good many of the foreign methods to advantage in this country to cheapen cost, but you will find a good many mills that are operated and managed by a lowpriced employee who has never had any technical knowledge and who has never had any training or experience as a salesman, who has, perhaps, been a bookkeeper in some paper mill and has been promoted to manage a large business employing a capital amounting to hundreds of thousands of dollars. The results are not very edifying either in the market or the factory. There is no business that I know of where the manufacturing details are not worked out closer than in the paper business.

The CHARMAN. What is the tendency of the mills of this valley as to the manufacture of wrapping papers, news-print paper, and

other different kinds of paper?

Mr. Steele. In the Nekoosa mill the production of 100 tons a day has gone off from print onto wrapping. The Consolidated mill is a very fine mill, and is going onto higher grades of paper as rapidly as possible, apparently. In fact, I think Mr. Mead stated yesterday that was his intention. The Grand Rapids Paper and Pulp Company is also running other grade of papers aside from print. It has been stated that other mills have contemplated doing the same thing. It would look, therefore, as though there was more profit to be obtained in the fiber papers than print in this section.

The CHAIRMAN. You think there is a tendency here to increase the production of other kinds of paper at the expense of the quantity of

news-print paper produced?

Mr. Steele. Largely because of the excessive cost of spruce pulp wood. That is the reason for it. We have the hemlock here, which is comparatively cheap. We can compete with anyone anywhere in the country on fiber papers. Hemlock will produce a better article than spruce will in fiber papers and we can produce it cheaply. The consequence is, the natural tendency is to get away from the ground-wood papers to the sulphite papers made from hemlock. If we could get our spruce from Ontario and from Canada I think the tendency would be stopped.

The CHAIRMAN. Has the relative price of these papers anything to do with this tendency to change; that is, is there a similar tendency in the market price of wrapping papers, manila and fiber

papers, as compared with news-print papers?

Mr. Steele. Do you mean is there more money in its manufacture? The CHAIRMAN. No. Does the same inducement to go into manila

papers exist all over the country that does here?

Mr. Steele. No; I think it is purely local, because we have the hemlock here and they haven't it in the East. They have the spruce and we haven't it. So that it is natural, like the force of gravity. It goes to the point of least resistance.

The CHAIRMAN. Then it is not because manila paper has gone up

in price very largely as compared to news-print paper?

Mr. Steele. No; this started years ago before there had been any enhancement of values.

The CHAIRMAN. The change here is owing principally to the relative cost of the raw material?

Mr. Steele. Yes, sir.

PULP AND PAPER INVESTIGATION **HEARINGS**

HD982

IMPORTATION STATISTICS

SELECT COMMITTEE OF HOUSE OF REPRESENTATIVES

JAMES R. MANN, Illinois, Chairman

JAMES M. MILLER, Kansas

HENRY T. BANNON, Ohio

WILLIAM H. STAFFORD, Wisconsin THETUS W. SIMS, Tennessee

WILLIAM H. RYAN, New York

NO. 30

WASHINGTON GOVERNMENT PRINTING OFFICE 1908



WOOD PULP, PRINT PAPER, ETC.

Pursuant to request by Hon. James R. Mann, chairman of the Select Committee on Pulp and Paper Investigation, made to the Treasury Department for certain information relative to importations of wood pulp, filter masse, printing paper, and pulp woods at the leading ports during the period from January 1, 1907, to June 1, 1908, which request was later followed by a letter to the President, dated July 14, 1908, in reference to the desired information, the Treasury Department, acting under the direction of the President, submitted a tabulated statement.

This tabulated statement shows the date of arrival, quantity, appraised value, and country of origin of each importation of mechanically ground wood pulp, chemical pulp, unbleached and bleached, filter masse or filter stock, printing paper and pulp woods, specified in paragraphs 393, 395, 396, and 699 of the tariff act of July 24, 1897, together with the duties, including countervailing duties, collected thereon, for the period from January 1, 1907, to June 1, 1908,

at the following ports:

New Orleans, La.; Kansas City, Mo., Chicago, Ill.; Milwaukee, Wis.; Marquette, Port Huron, Detroit, Mich.; Dayton, Ohio; Erie, Pa.; Niagara Falls, Buffalo, Oswego, Cape Vincent, Ogdensburg, Plattsburg, N. Y.; Alburg, East Alburg, Swanton, St. Albans, Richford, Newport, Vt.; Baltimore, Md.; Philadelphia, Pa.; New York, N. Y.; Bridgeport, New London, Conn.; Boston, Mass.; and Bangor, Me.

The statistics of the first 15 named ports are printed in this number

of the hearings.

PORT OF NEW ORLEANS.

Statement of importations at the port of New Orleans, La., from January 1, 1907, to June 1, 1908.

PULP OF WOOD.

[Specified in paragraph 393, tariff act of 1897. Mechanically ground. Duty, one-twelfth of a cent per pound.]

Date.	From—	Quantity.	Value.	Duty.
1907. September October	Swedendo	Pounds. 56,000 56,000	\$993.00 990.00	\$46. 67 46. 67
		112,000	1,983.00	93. 34

PORT OF NEW ORLEANS—Continued.

Statement of importations at the port of New Orleans, La., from January 1, 1907, to June 1, 1908—Continued.

PULP OF WOOD. CHEMICAL, UNBLEACHED.

. [Duty, one-sixth of a cent per pound.]

June	Norway	67.200	\$1,058.00	\$112.00
August		67, 200 67, 200	1,058.00 1,058.00 1,685.00	112.00 112.00 186.67
OctoberNovember	Norway	67, 200 100, 800	1,058.00 1,587.00	112.00 168.00
JanuaryFebruary	Norway	67, 200 67, 200	1,058.00 1,058.00	112.00 112.00
. Constant	S WORLD	616,000	9, 620. 00	1,026.67

FILTER MASSE, OR FILTER STOCK.

[Under paragraph 395.]

None.

PRINTING PAPER.

[Under paragraph 396. Value above 5 cents per pound. Duty, 15 per cent.]

1907. July	Germany	6,000	\$364.00	854. 60
1908. February	Englanddo	3,000 1,600 1,816	178.00 102.00 227.00	26. 70 15. 30 34. 05
May	England	1,000	103.00 974.00	15. 45

PULP WOODS.
[Under paragraph 699.]

None.

PORT OF KANSAS CITY, MO.

Imports of ground wood pulp at Kansas City, Mo., January 1, 1907, to June 1, 1908.

C. E.	Date of arrival.	Quantity.	Appraised value.	Country of origin.	Duties.
	1907.	Pounds.			
1064		78, 107	\$1,113.00		\$65.09
1065	do	128,214	1,827.00	ldo	106, 84
1074	May 30	155, 992	2,300 00	do	129. 99
1080	May 31	250, 302	3, 567, 00	do	208.58
1081		159, 381	2,341.00	do	132, 81
1038		68,922	982.00	do	57. 43
1099		147, 903	2, 108. 00	do	123, 25
116		65, 751	937. 00	do	54. 79
1129		80,017	1.140 00	do	66, 68
133		72,848	1,038.00	do	60. 70
134		75, 408	1,074.00	do	62. 84
		96.574		do	80.48
'		103.468	1,474.00	do	86. 22
		32.744	467.00	do	27, 29
13		125, 341			104, 45
				do	
4	June 24	47,401	665.00	do	39 50
7	do	30,405	432.00	do	25. 34
8	June 25	92,327	1,316.00	do	76. 94
9		40, 702	581.00	do	33. 97
0		56, 222	801.00	do	46. 85
8		23 .611	33 6.00	do	19. 67
9		37,118	529.00	do	30.93
100		34,749	495.00	do	· 28.96
31		37,317	532 . 00	do	31. 10
		3 6,085	513.00	do	30 07
33	July 17	42, 567	681, 00	do	35. 49
54	July 1	36,754	<i>5</i> 23 00	do	30. 63
55	July 20	41.132	586.00	do	34. 28
56	July 23	24, 272	345.00	do	20. 23
57		83, 267	473.00	do	27. 72
58		49.094		do	40. 81
59		23, 106		do	19.30

PORT OF KANSAS CITY, MO.—Continued.

Imports of ground wood pulp at Kansas City, Mo., January 1, 1907, to June 1, 1908—Continued.

C. E.	Date of arrival.	Quantity.	Appraised value.	County of origin.	Duties.
	1907.	Pounds.			
160		\$37,422	\$533.00	Chicoutimi, Quebec	\$ 31, 18
187		20,638	312.00	do	17. 20
188		82,743	467, 00	do	27. 29
189		24,057	343.00	do	20. 05
190		32,367	493.00	do	26. 97
191	July 9	38,082	542 00	do	29. 35
192		33,250	474.00	do	27. 54
193	July 25	34, 131	486 00	do	28. 44
216		24,235	345 00	do	20. 20
217	July 23	33,770	479.00	do	28. 16
218		52,393	735.00	do	43, 66
219		40,766	623.00	do	33, 97
251		38,265	545.00	do	31, 89
252	July 25	30,409	467.00	ldo	25. 34
253	do	87,902	530 00	do	31.69
254		33,275	474.00	do	27. 73
255	Aug. 1	29,759	424.00	do	24. 79
285	July 8	32,744	467.00	do	27. 29
286		48,066	685.00	do	40.05
287	Aug. 20	31,817	453.00	do	26. 51
288	Aug. 6	36,790	524.00	do	30. 66
321	July 20	38,089	543 .100	do	31. 74
322	July 25	32,725	466.00	do	27. 10
323	Aug. 5	46,844	667.00	do	39. 03
Total		3, 167, 760	45, 586, 00		2,637.0

No importation during the period from January 1, 1907, to June 1, 1908, of filter masse or filter stock under paragraph 395, nor printing paper under paragraph 396, nor pulp woods under paragraph 699 of the tariff act of 1897. No additional duties collected under the provisos of paragraphs 393 and 396.

PORT OF CHICAGO.

Statement showing date of arrival, quantity, appraised value and country of origin of the importations of the various kinds of wood pulp, filter masse or filter stock, printing paper and pulp woods, specified in paragraphs 393, 395, 396, and 699 of the tariff act of July 24, 1897, together with the duties collected thereon, at the port of Chicago for the period from January 1, 1907, to June 1, 1908.

PULP OF WOOD—CHEMICAL, UNBLEACHED.
[One-sixth of a cent per pound duty, dry weight, paragraph 393.]

[Date. Country.	Quantity.	Value.	Ordinary duty.	Counter- vailing duty.	Total duty.
1907. Jan. 30 Feb. 10 Feb. 15do. May 20do. July 21 July 3do. July 12do. July 16do. July 12do. July 22do. July 29do. July 29do. July 29do. Aug. 10do. Aug. 10do Aug. 12do. Sept. 9do Oct. 28do. Nov. 4do Dec. 4do Dec. 4do Dec. 4do	140,580 35,774 94,007 85,775 41,160 39,791 44,433 45,006 41,164 40,793 42,976 81,485 86,058 69,513 81,434 87,352 80,336	\$683. 00 1, 429. 00 2, (23. 00 672. 00 1, 713. 00 1, 709. 00 829. 00 837. 00 838. 00 796. 00 813. 00 1, 592. 00 1, 537. 00 1, 537. 00 1, 574. 00 1, 478. 00	\$67. 17 130. 60 234. 30 59. 62 156. 68 68. 60 66. 32 74. 06 75. 01 68. 61 67. 99 71. 63 135. 81 143. 43 115. 85 135. 72 145. 59 133. 89	\$5. 00 10. 00 17. 25 4. 50 11. 50 5. 00 5. 00 5. 50 5. 50 5. 00 5. 25 10. 50 10. 50 10	\$72. 17 146. 60 251. 55 64. 12 168. 18 153. 46 73. 60 71. 32 79. 56 80. 51 72. 99 76. 88 145. 81 153. 93 124. 35 145. 51

PORT OF CHICAGO—Continued.

Statement showing date of arrival, quantity, appraised value and country of origin of the importations of the various kinds of wood pulp, filter masse or filter stock, printing paper and pulp woods, etc.—Continued.

FILTER MASSE. [1] cents per pound and 15 per cent ad valorem, paragraph 395.]

Date.	Country.	Quantity.	Value.	Duty.
Oct. 15	Germany	7, 0.55 4, 409 2, 513 6, 614 992 110 4, 409	\$124.00 826.00 524.00 318.00 785.00 155.00 15.00 524.00 259.00	\$35. 18 229. 73 144. 74 85. 40 216. 96 38. 13 3. 90 144. 74 71. 93 181. 53
1908. Apr. 25 Apr. 30	dodo	1, 102 245 36, 268	170.00 39.00 4,398.00	42.03 9.53 1,203.75

PRINTING PAPER.

Over 5 cents per pound, 15 per cent ad valorem, paragraph 396.]

1907. Apr. 6 July 3 Aug. 16	France England do		\$763.00 82.00 88.00	\$114, 45 12, 30 13, 20
1908. Feb. 10	France.	2, 169	347.00	52 .05
		9,549	1, 280. 00	192.00

PRINTING PAPER.

[Over 4 cents, not over 5 cents per pound, eight-tenths of a cent pound duty, paragraph 396.]

1907. July 3 Aug. 16	Englanddo.	216 1,188	\$10.00 \$7.00	\$1.73 9.50
		1,404	67.00	11.23

PRINTING PAPER.

[Not over 2 cents per pound, three-tenths of a cent pound duty, paragraph 396.]

Date.	Country.	Quantity.	Value.	Ordinary duty.	Addi- tional duty, sec- tion 32.	Total duty.
1907 June 17 Aug. 22 Aug. 22 Sept. 7 Dec. 7 Dec. 7	Canada	Pounds. 43,760 48,300 40,797 42,835 82,787 35,027 40,809	\$813.00 \$94.00 755.00 796.00 1,573.00 666.00 775.00 6,272.00	\$131. 28 144. 90 122. 39 128. 51 248. 36 105. 08 122. 43 1,002. 95	\$31. 46 13. 32 15. 50 60. 28	\$131. 28 144. 90 122. 39 128. 51 279. 82 118. 40 137. 93

PORT OF CHICAGO—Continued.

Statement showing date of arrival, quantity, appraised value and country of origin of the importations of the various kinds of wood pulp, filter masse or filter stock, printing paper and pulp woods, etc.—Continued.

PULP WOODS. [Free of duty, paragraph 699.]

Date.	Country.	Quantity.	Value.
1907. Jan. 11 Jan. 11 July 12 July 22 Aug. 13 Aug. 27 Nov. 14	Canada	Cords. 451 377 800 500 450 543 600	\$1, \$83.00 1, 131.00 1, 500.00 1, 500.00 1, 350.00 1, 650.00 1, 800.00

PORT OF MILWAUKEE.

Imported from January 1, 1907, to June 1, 1908.

UNBLEACHED WOOD PULP.

Date. Quantity		Quantity.	Appraised value.	Country of origin.	Duty.	Counter- vailing duty.
190	7.	Pounds.				
May	10	41,856	\$783.00	Canada	\$69.76	\$5. 17
•	10	42, 285	809.00	do	70. 48	5. 21
	18	39,840	737.00	do	66. 40	4. 92
	23	77, 983	1,418.00	do	129.98	9. 62
	23	39 , 352	786.00	do	65. 59	4. 86
_	23	43, 565	809.00	do	72.61	5. 88
June	1	47,970	894.00	do	79. 95	5. 92
	1	44, 232	859.00	do	73. 72	5. 46
	1	43, 172	875.00	do	71.95	5. 33
	.8	48, 645 46, 639	988. 00 942. 00	do	81.08 77.24	6.00
	29	46,726	949.00	do	77.88	5. 71
July	11	43,019	864.00	do	71.70	5. 77 5. 21
sm3	iil	45, 476	916.00	do	71. 70 75. 79	5. 61 5. 61
	13	44,916	908.00	do	74. 86	5. 55 5. 55
	13	46, 344	924.00	do	77, 24	B. 72
	24	42,713	838.00	dodo	71. 19	5. 27
Ang.	7 8	90, 509	1,779.00	do	150. 85	11.17
aug.	6	46, 248	926.00	dodo.	77. 08	5.71
	ŏ	44, 069	873.00	dodo	73, 45	5.44
	اة	44, 650	902.00	do	74. 42	8, 62
	٥l	40, 533	813.00	do	67. 56	5.00
	13	97, 890	1,983.00	do	163. 15	12.00
	16	44,997	883.00	do	75.00	5. 58
	23	45, 262	902, 00	do	75, 44	5.59
Bept.		90,059	1,797.00	do	150.10	11.10
	6	89, 319	793.00	do	65. 53	4. 85
	9	82, 156	641.00	do	53.60	3. 96
	16	42, 212	841.00	do	70. 35	5. 21
	20 20	86, 902	1,674.00	do	144. 84	10. 71
	20	44, 465	869.00	do	74. 11	5. 49
	20	44,707	904.00	do	74.51	5. 52
	27	41,751	850. 00°]do	69. 59	8. 18
-	27	42, 588	855.00	do	70. 98	8.20
Oct.	2	41,781	799.00	do	69. 64	8. 16
	7	76, 216	1,525.00	do	127. 03	9. 40
	7	43, 696	883.00	do	72. 83	8. 39
	17	72,737 81,457	1,440.00 1,620.00	dodo	121. 23 135. 76	8.97 10.06
	17	27.508	800.00	do	62. 51	10.00
	28	41,753	773.00	do	69. 59	A. 16
Mov.		25,628	708.00	do	59. 38	4.40
_~~.	6	41,627	839.00	do	69. 38	5. 14
	14	77, 752	1.627.00	dodo.	129. 59	9. 58
	17	41,720	834.00	do	69. 54	6.14
	ži	25, 164		do	58. 61	4.34

PORT OF MILWAUKEE—Continued.

Imported from January 1, 1907, to June 1, 1908—Continued.

UNBLEACHED WOOD PULP-Continued.

Date.	Quantity.	Appraised value.	Country of origin.	Duty.	Counter vailing duty.
1907. Nov. 22 Dec. 12	Pounds. 40, 971 57, 420	\$815.00 1,163.00	Canadado	\$63, 29 95, 70	\$ 5.0
14	41,425	816.00	do	69. 04	6. J
1908.			_		
May 18 28	42,682 37,350	768. 00 676. 00	do	71. 14 62. 25	5. 4.
	2,549,937	50, 484. 00		4, 249. 49	314.
			FILTER MASSE.		
1000	<u> </u>	1			
1907. Jan. 17	1,100	\$129.00	Germany	\$35, 89	
Feb. 9	992	116.00	Holland	32. 28	
eb. 25	2,205	257.00	Germany		
pr. 11	989	118.00	Holland	32. 58]
dar. 22	440	51.00	Germany		
Do	660	77.00	do	21. 47	
May 17	4,409	450.00 236.00	do	133. 64 65. 16	
une 6 July 25	1,980 4,409	547.00	do	148. 19	
uly 29	1,984	231.00	do	64. 41	
Mar. 25	1,102	129.00	Germany	35, 88	
Sept. 4	4,009	474.00	do.	137, 23	
Oct. 5	1,984	231.00	Holland	64. 41	
Dec. 20	1,984	231.00	do	64. 41	
1908.					1
Mar. 11	5,580	533.00	do	163. 65	
May 25	5, 496	533. 00	Germany	162. 63	
	89,323	4,343.00		1,247.72	
			PRINTING PAPER.		
1917.					
May 17	35, 995	\$666,00	Canada	\$107.99	
Aug 23	43,030	796.00	do	129. 10	
	79,025	1, 462. 00		237. 09	

No additional duty collected during the period from January 1, 1907, to June 1, 1908, on importations and paragraph 396 of the tariff act of 1897.

PEELED PULP WOOD.

190 .	Cords.			l .	į .
June 16	¥85	\$4,925,00	Quebec	1	1
June 22	595	3, 220, 00	do		
	850	4, 675, 00	do		
	990	5.44 5.00			
			do		
Aug. 3	700	3,850.00	do		
Aug. 7	850	4,675.00	[do		
Sept 2	700	4, 200. 00	do		
bept. 9	940	5, 170. 00	do		<i>-</i>
Sept 16	690	3,795.00	do	<i></i>	
Bept 21	1,100	6, 600, 00	do		
Oct. 15	1,125	6, 187, 50	do		
Oct. 18	940	5, 170, 00	do		
Oct. 19	360	1, 580.00	do		
Nov. 5	755	4, 152, 50	do		l
Do	675	3,712.50	do		
DU	0/3	0,112.00	uv	1	
ľ	10.00	47 7/7 /0	1		
1	12, 255	67, 757. 50			

PORT OF MARQUETTE, MICH.

Imports of wood pulp, print paper, and pulp wood, from Canada, received between January 1, 1907, and June 1, 1908.

WOOD PULP (MECHANICALLY GROUND.)

Date.	Quantity. Value.		Rate of duty.	Duty col- lected.	
1907.	Pounds.				
anuary 2	2, 243, 722	\$14,393.30	A cent per pound	\$1,869.78	
anuary 3	1, 426, 248	9, 850. 11	do	1,188 5	
anuary 8	943,068	6, 013. 79 4, 302. 44	do	785. 8	
anuary 10anuary 14	627, 113 640, 674	4, 138, 65	do	522. 59 533. 89	
lanuary 14	649, 983	4,391.72	do	541. 6	
	466,553	8,060.26	ldo	388.79	
anuary 16	425, 145 314, 252 110, 273	2,810.27	do	354. 2	
anuary 17	314, 252	2,111.43	dodo	261.8	
anuary 18	110, 273	162. 32	do	91.90	
January 21January 22	1,277,624 287,120	8, 327. 44 1, 722. 72	dodo.	1,064.6 239.2	
January 25	313, 128	2,348.46	do	200. 20 200. 9	
January 28	916, 414	5, 763. 41	do	763. 6	
February 1	2, 342, 747	15, 056, 31	do	1.952.2	
anuary 25 anuary 25 anuary 28 February 1 February 5	2, 342, 747 894, 986	5, 82ú. 19	l do	1,952.2 745.8	
	117,645	882. 34	do	98.0	
February 8. February 11. February 12. February 14.	132,049	990. 37	do	110.0	
February 11	1,744,963	10, 843, 62	do	1, 454. 1	
renruary 12	497, 147 265, 584	3, 297. 12 1, 991. 88	do	40a, 2 221, 3	
February 15	238,707	1, 643. 91	do	198. s	
Fohrmary 19	431 740	3,072.27	do	359.7	
February 19	562, 288	3, 373, 12	do	468. 4	
February 19February 20February 20	562, 288 383, 780 410, 388	2,595.03 3,077.91	do	319. 8	
February 21	410,388	3,077.91	do	341.9	
February 23	1, 488, 511	9,975.90	do	1,240. 4	
March 1	578, 239 750, 494	4,039.09 5,443.71	do	481. 8 625. 3	
March 4	413 127	9 478 75	do.	344. 2	
March 6.	413, 127 638, 368	2, 478, 75 4, 341, 58	do	534. 4	
March 7.	218, 496	1,639,72	do	182. 0	
March 8	170, 338	1,277.54	do	141.9	
March 11	610, 720	4, 244. 02 3, 745. 98	do	508. 9	
March 12	548, 321	3,745.98	do	456.90	
March 14	366, 828 462, 271	2, 751. 22 8, 505. 68	do	305. 66 385. 2	
March 19	163,093	1, 195. 70	do	135. 9	
March 20.	132, 264	991.98	do	110. 2	
March 22	199,509	1, 499. 77 4, 551, 25	dodododo	166. 6	
March 25	616, 533 127, 532	4, 551, 25	do	513.7	
March 26	127, 532	956. 49	do	106. 2	
March 27	182, 601 184, 153	1, 369. 51 1, 381. 15	do	152. 1 153. 4	
March 28	194, 942	1, 462. 07	dodo.	162. 4	
April 2	554, 048	4, 155. 36	do	461.7	
April 1. April 2. April 3.	209,611	1,572.08	do	174.6	
Appril 4	219, 845	1,648.84	do	183. 2	
A pril 5	219, 520	1,646.40	do	182. 93	
April 5. April 8. April 9. April 10.	439, 763	3, 298, 21	do	366.46	
April 9	180, 337 185, 592	1, 352. 53 1, 391. 94	dodo	150. 2 154. 6	
April 11	289, 199	2, 100, 06	do	241.0	
A nril 12	242, 569	1,819.27	do	202.1	
April 12 April 13 April 15 April 17	209,666	1, 572, 50	do	174.7	
April 15	435, 288	3, 190, 51	ldo	362.7	
April 17	216.698	1,625,23	do	180. 5	
	209, 380	1,570.35	do	174. 4	
April 19	193, 735	1, 453. 01	do	161. 4 370. 5	
April 19. April 19. April 22. April 23. April 24.	444, 645	3, 334. 95 1, 367. 73	dodo	370. 3 151. 9	
Anell 24	182, 364 217, 158	1,626.68	do	180. 9	
April 25	125, 739	754. 43	do	104. 7	
April 26 May 1 May 3. May 6.	97, 504	585. 01	do	81.2	
May 1	850, X91	5, 395. 18	do	709. 0	
May 3	363, 264 441, 530	2, 179. 58	do	302.7 367.9	
May b	441,530	2, 649. 17 1, 873. 49	dodo	367.9	
May 7	312,584 616,793	1, 873. 49 4, 242. 83	do	260. 4 513. 9	
May 13	360, 492	2, 305. 95	do	300. 4	
May 10	215, 491	1, 440, 51	dodododo	179.5	
MAY 15	401,629	2,774.88	do	179. 5 334. 7	
May 16	151, 705	910. 22	do	126. 4	
May 17	283, 214 241, 466 155, 047	2, 020. 16 1, 580. 44	dododododododododo	236. 0 201. 2	

Imports of wood pulp, print paper, and pulp wood, from Canada, received between January 1, 1907, and June 1, 1908—Continued.

WOOD PULP (MECHANICALLY GROUND)-Continued.

Date.	Quantity.	Value.	Rate of duty.	Duty col- lected.	
1907.	Pounds.				
(ay 22	883, 541	\$2, 739. 27	r cent per pound	\$319.	
lay 23	18, 143	, 208.64	do	15.	
ay <u>24</u>	107, 544	867. 52	dodododododo	89.	
ay 27une 3	23, 196 419, 388	301.58	do	19.	
une 3	119, 388 102, 031	8, 251. 28 765. 23	do	349. 85.	
une 5	683, 017	4,837.27	ا مم	569.	
uno 6	84 25A	631.92	dodododo	70.	
une 6	84, 256 161, 311	1, 50.3. 21	do	134	
une 10une 12une 13	19, 448	243. 10	do	134. 16.	
nne 13	19, 565	244. 56	do	16.	
IDA 18	191,864	2,064.15	l do	159.	
une 19	38, 854	233. 12	do	32. 245.	
une 21	294, 243 121, 996	1,765.45	do	245.	
une 19une 21une 26	121,996	914. 97	l do	101.	
1DA 27	61, 542	461.56	do	51.	
uly 1 uly 2 uly 3 uly 5	1, 107, 473 226, 266 185, 354	6, 964. 21	do	922.	
uly 2	226, 200	1, 644. 15 1, 112. 12	dodododododo	188.	
aly 3	185, 354	5, 4(2, 95	do	154. 758.	
	910, 498 379, 348	2, 3: 8. 85	do	316.	
uly 8	629, 506	3, 783. 99	do	524.	
uly 9	523, 105	3 138 62	dododododododododododododo.	435.	
niv 11	80, 527	951. 35	do	67.	
uly 12	228, 538	1, 371. 22	do	190.	
uly 15. uly 16. uly 18.	643, 049	3, 540, 19	l do	535.	
uly 16	511, 119	3, 361. 88	do	425.	
uly 18	299, 601	1,797.80	do	249.	
uly 19	221, 404	1,600.54	do	184.	
	867, 117	5, 213, 50	dodododododo	724.	
ıly 23	1, 435, 421	9, 221, 04	do	1, 196.	
nly 22. nly 24. nly 25. nly 26.	481, (27 180, 248	3, 180. 84	do	401.	
ıly 25	180.248	1,351.86	do	150.	
uly 26	1/8, 213	1, 186, 59	do	131.	
uly 29 ugust 1 ugust 2 ugust 5	1,016.438	6, 295, 22 11, 315, 60	do	847.	
ugust 1	1,702,473 315,388	11,313.60	do	1,410.	
ugust 5	1,581,444	1, 970. 58 10, 358. 50	do	24.2. 1,317.	
nonet &	264, 281	1,585.68	do	220.	
ugust 6. ugust 7. ugust 9. ugust 12.	159, 508	1, 196. 31	do	132.	
ugust 9.	428, 158	3, 211, 18	do	356.	
ugust 12	428, 158 557, 016	3, 211. 18 3, 212. 64	do	404.	
1101181 13	l 469.779 l	3,093.03	ldo	391.	
ugust 14. ugust 15. ugust 16. ugust 19.	2,301,677	14, 925, 61	dododododododododododododododododododo	1,918	
ugust 15	200, 437	1,503.24	do	167.	
ngust 16	580, 189	3, 821. 89	do	483	
ugust 19	619,916	4,073.29	do	516	
ugust 20. ugust 21. ugust 22. ugust 23.	147,420	1, 105. 69 2, 577. 59	dodo.	122 349	
ugust 21	419.710	2, 577, 59 6, 099, 06	do.	349. 768.	
ngust 22	922, 389 1, 007, 442	6, (57. 19	do	839	
	1 1050 957	6 840 22	do	875	
ugust 27	234.617	1, 347, 70	l do	187	
ugust 27. ugust 28. ptember 3. ptember 4.	550.336	3, 574. 51	dodododo	4.8	
ptember 3.	2, 171. 750	14, 488, 59	do	1.809	
ptember 4	852.8 29	5, 319, 84	'do	710	
ptember 5	191.088	1, 407, 74	l do	156	
ptember 6	494, 908	3, 240. 03	do	412	
optember 9	505, 88 546, 223	3, 424. 14	ldo	421.	
ptember 10	546, 223	3, 277, 34 1, 763, 58	do	455	
ptember 11	231.642	1,763.58	do	193	
ptemper 12	1,989,695	12,847.59	do	1,658	
puniber 10	1, 283, 688 571, 013	8, 580. 19 3, 706, 39	dodo.	1,069 475	
sptember 12	756, 109	5, 302. 13	do	670	
entember 20	231, 303	1,748.75	do	638 192	
entember 23	1, 484, 231	9, 495, 38	do	1,207	
intember 24	640 479	4, 188, 11	do	541	
pptember 20 pptember 23 pptember 24 pptember 25 pptember 25	649, 472 181, 203	1,359.02	dodododo	541 151	
optember 27	1.849.548	12, 483, 16	do	1,541	
	384, 615	2, 364. 79	.do	320	
ctober 3	788.85 8	5, 291. 83	ldo	657	
ctoher 3ctoher 4	422, (29	2,799.79	dodo	352	
ctoher 7	541,894	3, 647. 47	do	451.	
ctober 8	1,003,257	6,079,63	do	836.	
ctober 9	781,633	5, 356. 40	do	651	

Imports of wood pulp, print paper, and pulp wood, from Canada, received between January 1, 1907, and June 1, 1908—Continued.

WOOD PULP (MECHANICALLY GROUND)-Continued.

Date.	Quantity.	Value.	Rate of duty.	Duty col- lected.
1907.	Pounds.			
October 10	292, 840 182, 466	\$1,757.04 1,308.50	do de de la cent per pound	\$244. 03 152. 06
October 14.	1, 713, 144	11, 127. 57	do	1, 428. 64
October 15.	1,713,144 571,744 270,064	3, 720. 21	do	476. 45
October 16	270,064	2,007.11	do	225, 05
October 21	1,425,822	9, 203. 68	do	1, 188. 19
October 22	82,703	496, 76	do	69.00
October 22 October 23 October 24 October 25	1,920,398	12,698 35 1,613.03	do	1,600.35
October 25	215,070 210,871	1,581.53	dodo	179. 23 175. 73
	362,383	2,174.29	do	301.99
October 29. November 4. November 5.	333,555	2,513.38	ldo	277.96
November 4	1,870,626	12,100.07	do	1,558.85
November 5	1,638.803	10,699.41	do	1,365.67 702.41
November 6	842,898 1,775,682	5,350.14 11,908.14	dodo.	1,479.73
November 11	697 798	4,797.40	do	581.50
November 12.	697,798 92 9,888	i K.QAOR.Q1	do	774.92
November 12. November 13. November 14.	205,849	1,543.87	do	171. 54
November 14	2 11,723	1.587.92	ldo	176. 44
November 15	649,652	4, 195. 22	do	541.38
November 18	612,749	4,269.26	dodo	500. 63 770. 39
November 18. November 19. November 20.	924,452 192,500	5,857.47 1,443.75	do	160. 42
November 21	192,500 217,437	1,630.78	do	181. 20
November 22	674,074	4,381.70	do	561. 72
November 25	388,208	2 ,671.07	do	323. 53
November 26	609,492	4,371.79	do	5 07. 91
November 26	546,016	3,614.37 4,249.75	do	455. 02 500. 38
December 2	600,455 695,253	4,257.69	dodododo	579.37
December 3	318,245	2,191.61	do	265. 20
December 4	243,695	1,827,71	do	203.08
December 5.	209,102	1,568.27	do	174. 25
December 6	284,949	2,088.45	do	237. 46
December 9	678,518 375,110	4,717.09 2,599.44	dodo.	565. 27 312. 59
December 11	211,884	1,589.13	do	176. 57
December 12	339,081	2,2×3.45	do	282.56
December 13	310,607	2.163.75	do	258. 84
Dccember 16	790,037	5,326.30	do	658.38
December 17	237,584	1,781.88	do	197. 99
December 18	189,401 578,537	1,420.51 3,774.66	do	157. 83 482. 11
December 20	297,876	2,061.82	do	248. 24
December 20	759,621	5,095.37	dodo	633. 01
December 24	5 02,042	3,448.13	do	433. 38
December 28.	747,758	5,012.52	do	623.14
December 30	360,977	2,707.35	do	300.82
Total amounts, year 1907	109,491,347	729, 261, 54		91,323.97
1908	100,101,011	125,201.01		91,020.01
January 2	417, 599	8, 131. 99	te cent per pound	348.00
January 2 January 3 January 6 January 7	331,614	1.989.69	dododo	276. 35
January 6	1,441,728	9, 461. 35	do	1, 201, 43
January 7	573, 134	4,020.46	do	477. 61
January 8. January 10. January 13. January 15. January 15. January 16.	544,043	8,753.33	dodo	453. 38
January 13	308,927 760 718	2, 184. 59 5, 112. 33	do	257. 44 641. 42
January 15	769, 718 567, 148 549, 851	3, 988. 59	do	472.63
January 16	549, 851	3 , 573. 82	dodo	458, 21
January 17	165,214	1, 239, 11	do	137. 68
January 20	519,860	3, 402. 30	do	433. 22
January 17. January 20. January 21. January 22.	190, 134 881, 863	2,471.74 6.061.96	do	158. 45 734. 89
	194, 852	1, 461. 39	dodo.	105.70
January 27 January 30 Rebruary 3 Reprinary 4 February 5	1,905,847	15, 159, 73	do	1, 588. 22
January 30	307.069	1,842.41	do	255. 89
February 3	1,113,739 1,367,011	7 693 77	do	933. 12
February 4	1,367,011	9, 137. 05	dodododo	1, 139. 18
February 5February 6	556, 096 233, 044	8, 671. 78 1, 792. 83	do	463. 43 199. 20
February 7	233, 044 140, 604	1,792.83	do	117.17
February 7	564, 272	5, 311, 42	ldo	470. 23
February 11	404, 983	2,753.11	do	837. 48
	,,,,,,,,	-,		

Imports of wood pulp, print paper, and pulp wood, from Canada, received between January 1, 1907, and June 1, 1908—Continued.

WOOD PULP (MECHANICALLY GROUND)-Continued.

Date.	Quantity. Value.		Rate of duty.	Duty col	
1908.	Pounds.				
bruary 12	426, 148	\$2,894.50	A cent per pound	\$3 55.	
bruary 13	826, 839	5,767,05	do	689.	
bruary 14	174, 332	1, 307, 49	do	145.	
bruary 17	818, 464	5, 473, 39	do	682.	
bruary 18	209, 580	1, 571. 85	do	174	
bruary 19	195, 327	1, 171.06	do	162	
bruary 20.	264, 789	1, 985. 92	do	220.	
bruary 21	192,640	1, 155. 84	do	160.	
beneg 24		14, 191, 68	do	1, 587.	
bruary 24bruary 25	380, 982	2, 636. 63	do	317.	
bruary 26		1,763.78	do	221	
				221.	
bruary 28	299,478	2,072.98	do	249	
rch 2		8,003.40	do	382	
ırch 3	941,805	6, 163. 88	do	784	
rch 4	153, 229	1, 149. 12	do	127.	
rch 5	181,400	1,360.50	do	151.	
rch 9		8, 650. 56	do	1,088	
rch 10		2,947.81	do	384	
rch 12	518, 422	3 , 888. 17	do	432	
rch 13	204,035	1,530.26	do	170	
rch 16	929,740	6,074.02	do	774	
arch 17	210, 122	1,260.73	do	175	
arch 18	386, 297	2,897.23	do	321.	
rch 19	386, 297 249, 204	1,699.22	do	207	
arch 20	139, 326	1,044.95	do	116	
rch 23		1,809.39	do	197	
rch 25		2,215.01	do	269	
arch 27	161.600	1,211.90	do	134	
arch 30		2,690.06	do	821	
pril 1		1,218.41	do	143	
pril 2	212,256	1, 476. 45	do	176	
orll 3	136, 106	1,020.80	do	113	
oril 6	125, 544	814.80	do	104	
ЛИ 0	165.462			137	
oril 7 oril 8	105, 641	1,124.79 792.31	do	88	
oril 9.	128, 954	773. 73	do	107	
oril 13	152, 169	913. 61		126	
			do	75	
oril 15		1,623.12	do	199	
oril 17	239, 168	1,503.95	do		
oril 20	217,917	1,518.41	do	181	
oril 21	76, 126	456.75	do	63	
oril 22		1,261.02	do	140.	
oril 23		1,391.63	do	154	
oril 24		1,026.73	do	114	
orll 27	242.606	1,700.43	do	202	
oril 29	226, 938	1,702.04	do	180	
y <u>1</u>		1,202.60	do	133	
ý 4		813.68	do	90	
iy 6	243,961	1,829.72	do	203	
y 8	43,729	327. 97	do	36	
ý 11	272,664	1,846.70]do	227	
iv 13		2,517.32	do	299.	
ıy 15	. 191,417	1,478.61	do	159	
iy 18	. 326, 409	2, 695. 43	do	272	
sy 19	. 133.982	1, 13×. ×5	do	111.	
ıy 22	210, 179	1,671.89	do	167	
iy 25	260.081	2,072.29	do	216	
ay 28	128, 953	1,096.10	do	107	
Total for first 5 months, 1908	32,060,506	230, 927, 78		26, 398	
Grand total	141,551,853	960, 189. 32	1	117,722	

WOOD PULP (CHEMICAL UNBLEACHED).

August 12 August 14	27,921	457. 20	dodo	46. 53
July 22	82,618	\$1.459.85	i cent per pound	\$137, 70

Imports of wood pulp, print paper, and pulp wood, from Canada, received between January 1, 1907, and June 1, 1908—Continued.

ADDITIONAL DUTIES COLLECTED, WOOD PULP FROM CANADA.

	1	1	
1907. January 8			80, 22
June 7			. 40
Do			. 55
June 10			8. 95
Do	.l		1.84
June 19			1.33
November 6.			1.85
Total for 1907		1	10.14
1908. January 10.			3.83
March 2			6.67
April 16			86. 47
	1		
Total for 5 months, 1908			107. 11
		1	
Grand total	· · · · · · · · · · · · · · · · · · ·		117. 25
	1	1	

Between January 1, 1907, and June 1, 1908, there was but one importation into Marquette, Mich., of print paper—June 11, 1907, print paper, 29,112 pounds; value, \$506.81; duty, \$87.34.

No importations of pulp wood from November 21, 1907, to July 1,

1908.

No importations of filter masse or filter stock during the period from January 1, 1907, to June 1, 1908.

PULP WOOD FROM CANADA (FREE).

Date.	Quan- tity.	Value.	Date.	Quan- tity.	Value.
1907.	Cords.			Cords.	
May 22	2,000	\$10,000.00	August 23	1,287	\$3,240.00
May 27	10	30.00	August 27	70	385.00
June 3	280	1,110.00	September 3	20	110.00
June 5	944	4, 720, 00	September 5	50	275. 0
June 6	10	30.00	September 6	810	8, 255, 0
June 10	280	1, 110.00	September 9	200	1,000.0
June 13	233	990.00	September 10	20	110.0
June 17	10	30.00	September 12	30	165.0
June 21	30	90.00	September 13	310	1, 555, 00
June 24	3,000	15,000.00	September 16	50	275. 00
June 25	10	30.00	September 17	1,500	7, 500, 0
June 26	500	2,000.00	September 18	10	55. 00
July 1	1.200	4,800.00	September 20	50	325. 0
July 2	260	980.00	September 23	1,230	4, 965. 0
July 3	235	961.00	September 24	30	165.0
Tuly 8	1.063	4, 250, 00	September 16	20	110.0
July 9	2,700	13,500,00	September 27	100	550.00
July 10	1,600	6, 400. 00	October 1	110	605. 0
luly 11	721	3, 135.00	October 2	20	110.0
luly 12	76	474.00	October 3	80	440.0
July 15	10	55.00	October 7	30	165. 0
July 18	10	55 . 00	October 8	130	715.0
July 22	10	55.00	October 11	30	165. 0
July 23	20	105, 00	October 14	20	110.0
July 28	30	165.00	October 15.	2,000	10, 005. 0
July 29	19	100.00	October 16	20	110.0
August 1	10	55. 00	October 17	160	880. 0
August 2	50	275.00	October 21	30	165.0
August 5	5,625	28, 125. 00	October 22	130	665. 0
August 6	135	737.00	October 23	70	385.0
August 7	345	1,727.00	October 28.	140	770.0
Angust 8	90	565.00	November 2	20	110.0
August 12	10	5 5. 00	November 20	10	5 5. 0
August 13	30	165.00	November 21	10	55.0
August 19	20	110.00			
August 21	750	4,500.00	Total amounts pulp-		
August 22	10	55.00	wood, 1907	31,333	146,089.00

PORT OF PORT HURON, MICH.

Data.	Quantity.	Value.	Duty.	Counter- vailing duty.	Total duty.
1907.	Pounds.				
Tennes 4	20, 200	\$110.00	\$16.83	\$2, 53	\$19. 36
January 5	26, 380	148.00	21.98	3.30	25. 28
January 5	28,800	161.00	24.00	8.60	27.60
	75, 380	419.00	62. 81	9. 43	72.24
February 11	30,500	191.00	25. 42	3. 81	29. 23
February 15	30, 612 30, 300	172.00	25. 51	3.83	29.34
February 20	30,300	170.00	25. 25	8.79	29.04
February 21	51,410	288.00	42.85	1.47	44. 23
	142,822	821.00	119.03	12. 90	131.98
March 7. March 12. March 14. March 15. March 25. March 28. Do.	90,780	772. 00 135. 00	75. 65 32. 67	11.35	87.00
March 14	39,205 27,056	90.00	22. 55		32. 67 22. 55
March 15	51,626	180.00	43. 02		43.02
March 25	40,812	135.00	34.01	5. 20	34.01
March 28	41, 630 50, 920	236.00 278.00	84.69 42.45	6.20 6.36	39. 89 48. 81
	342,029	1,826.00	285. 04	22. 91	307.95
April 2	60,780 20,940	246.00 119.00	50. 65 17. 45	7.60 2.63	58. 25 20. 08
April 4	20, 496	115.00	17.08		17.08
A pril 5	30,730	175.00	25, 61	8.84	29. 45
April 5 April 6 April 8 Do	81,592 30,760	101.00 173.00	26. 33 25. 63		26. 33 25. 62
Do	RG 210	509.00	74. 34		74.34
April 11	51,210	292.00	42.68		42. 68
April 13	45,600	342.00	38.00	5. 70	43. 70
Appell 15	45, 600 58, 650	342.00 334.00	38. 00 48. 88	5. 70 7. 33	43. 70 56. 21
April 15	66,780	401.00	55. 65	8 35	64.00
	20,000	109.00	16. 67	2. 50 7. 68	19. 17
April 17	61,440 24,000	369. 00 180. 00	51. 20 20. 00	7.68 3.00	58. 88 23. 00
A pril 18	41.050	231.00	34. 21	5.13	39 34
April 20. April 22.	60,530	351.00	50.44	5. 13 7. 57	58. 01
April 22	80,400	176.00	25. 33 33. 98		25. 33
	40.775 60,710	245.00 864.00	50. 59	5. 10 7. 59	89.08 58.18
	20, 480	123.00	17.07	2, 56	58. 18 19. 63
	30,750	175.00	25. 02	3. 85 2. 85	29. 47
	22,800 30,000	171.00 150.00	19.00 25.00	2.85 3.75	21. 85 28. 75
April 23	20, 420	123.00	17. 02	2.53	19.55
	22,800	171.00	19.00	2, 85	21.85
4	25,160	146.00 310.00	20. 97 43. 07	8. 15 6. 46	24. 12
April 27	51,680 58,280	630.00	48.57	0.40	49. 53 48. 57
April 29	25,960	15ti, 0 0	21. 64	8.24	24.88
•	71,640	416.00	59. 70	8.96	68, 66
	65, 130 75, 600	352.00 855.00	54. 29 63. 00		54. 29 63. 00
	1,411,953	8, 952. 00	1, 176. 67	119.92	1, 296. 59
May 2	30, 230	175. 00	25. 17	3. 79	28. 96
May 4	46,880 91,020	272.00 528.00	39. 07 75. 85	5. 86 11. 38	44. 93 87. 23
風 起 y 9	89,620	520.00	73. 85 74. 69	11. 38	87. 25 85. 88
	50, 448	243.00	42.04		42.04
May 7	90,695	528.00	75. 58		75. 58
may (51, 125 30, 400	269.00 228.00	42.60 25.33		42, 60 25, 33
	30, 440	117.00	25. 37		25, 37
May 9	138, 180	792.00	115. 15		115, 15
May IU	24, 840 25, 320	269.00 146.00	20.70 21.10	3. 17	20, 70 24, 27
May 13	1 37,800	339.00	21. 10 21. 50	0.1/	31.50
•	45,270	263.00	8 7. 73		37. 73 29. 31
May 14	36,590	177.00	25. 49	3.82	
May 17	21, 120 30, 610	122.00 177.00	17. 60 25. 51	2.64	20. 24 25. 51
	61,040	354.00	50.87	7. 63	58.50
	,			🕶	

Date.	Quantity.	Value.	Duty.	Counter- vailing duty.	Total duty.
1907.	Pounds.				
May 20	30, 252	\$176.00	\$25. 21	\$3.78	\$28.99
	30,380	170.00	25. 32	3.80	29. 12
·	25,303	147.00 634.00	21. 09 43. 48		21. 09 43. 48
May 21	52, 182 19, 200	144.00	16.00		93, 48
may 41	24, 440	86.00	20.37		16. 00 20. 37
	30 410	176.00	25 34		25. 34
May 23	30, 290	176.00	25, 25	3, 78	20.03
	30,290	177. 00 i	25. 24 25. 33		25. 24 25. 33 67. 82 50. 73
	30, 400	228.00	25. 33		25 33
May 24	81,380	472.00	67. 82		67. 82
- ·	60,880	853.00	50. 73		50. 73
	30, 400	228.00	25. 33		25. 33
	20,600	119.00 149.00	17. 17 21. 46	2.58	19. 75
May 27	25,750 30,400	171.00	25. 33	8. 22	24. 68 25. 33
may 2/	30,580	177.00	25. 48		20.00
	51,565	291.00	42. 83	6.59	25. 48 49. 42
May 28	21,712	261.00	18.09		18.09
May 31	55,685	323, 00	46. 40	6.96	53. 36
	1,637,527	10, 250. 00	1,364.02	82. 19	1, 446. 81
June 1	21,744	179.00	18. 12		18. 12
	22,800	171.00	19.00	15.11	19. 00
June 3	120,850	701. 00 178. 00	100. 71	15.11	115.82
J ULDO 3	30, 650 36, 685	302.00	25. 54 30. 57	8.83 2.64	29. 37 33. 21
	52,640	590.00	43. 87		43. 87
	24,872	205.00	20. 73		20. 73
	31,000	180.00	25. 88		25. 88
June 4.	23, 314	192.00	19. 43		19. 43
	25.394	210 00	21. 16		21, 16
June 5	27,518	210 00 227, 00 257, 00	22. 93		22. 93
	21,412	257.00	17. 84		17. 84
	21,412 50,770	294. 00	42. 31 23. 85		42. 31
Turns &	28,620 29,690	166, 00 172, 00	24. 74		23. 8 5 24. 74
June 6 June 7	30 , 370	171.00	25. 31	8.79	29. 10
June 8.	25, 450	147.00	21. 21		21, 21
June 10	67, 200	854.00	56.00		56, 00
	43, 400 30, 290	358.00	3 6. 17		3 6. 1 7
	30, 290	176. 00	25. 24		25. 24
	41,341	240.00	84. 45		34. 45
June 11	103,217	599.00	86. 01	6.38	86. 01
	51.030 32,886	296. 00 271. 00	42. 53	6.38	48. 91 27. 41
•	42,120	498.00	27. 41 35. 10		35. 10
	21,520	258.00	17. 93		17. 93
	58,750	341. 00	48. 96	7. 34	66, 30
June 13.	30.840	173.00	25, 70	3,86	56. 30 29. 56
	22,208	183. 00	18. 51		18. 51
	21,208	175 00	17. 67		17. 67
June 14	30,260	170.00	25. 22	3.78	29. 00
	61,709	509.00	51.42 17.34		51. 42 17. 34
Troma 16	20,908	172. 00 166. 00	23. 78	8. 57	17. 39 27. 35
rune 17	28,530 21,412	200.00	23. 78 17. 84		27. 33 17. 84
June 15	51,250	257. 00 207. 00	17. 84 42. 71	6.41	49. 12
June 19	30.600	297. 00 177. 00	25. 50		25, 50
June 21	30.200	175.00	25. 17	3.78	28. 95
June 22	28,240	159.00	23. 53	l	28. 95 23. 58
	84, 395	490.00	70. 33		70. 33 16. 87
	20.240	118.00	16. 87		16. 87
	59.390	345.00	49. 49	7. 42	56. 91
Tune 24	62, 400	362.00	52.00	-	52.00
	30,500 30,630	177. 00 178. 00	25. 42 25. 53		25. 42 25. 53
	54,061	814.00	25. 53 45. 05		25. 53 45. 05
Tuzne 25	33,400	434.00	95. U5 27. 83		27. 83
· · · · · · · · · · · · · · · · · · ·	32.754	270.00	27. 30		27. 30
	30, 480	177.00	25. 40		25, 40
	60, 940	354.00	25. 40 50. 78		50. 78
	25,610	148.00	21. 34	J	21, 34
Tune 26	23,080	273.00	19. 23		19. 23 27. 71
	33, 252	274.00	27. 71	1	27, 71
	85,016	289.00	29. 20		29, 20

Data.	Quantity.	Value.	Duty.	Counter- vailing duty.	Total duty.
1907.	Pounds.				
June 27	54, 412	\$316.00	\$45. 34		\$ 15. 34
June 28	34 , 446 60 , 800	413. 00 353. 00	28. 71 80. 72		28. 71 50. 72
Jule 20	184,680	2,182.00	153. 90		153.90
	65, 736	542, 00	54. 78		54. 78
June 28	34,494 41,250	285. 00 239. 00	28. 75 34. 38		28. 75 34. 48
	2,564,978	19,085.00	2,137.45	\$67. 91	2,205.36
July 1	34,286	283.00	28. 61		28. 61
	30,730	172.00	25. 61		25.61
	60,550	351.00	50. 46	[50. 46
July 3	30,350 21,796	176.00 180.00	25. 29 18. 16		25, 29 18, 16
July 5	32,748	270.00	27. 29		27. 29
	50,945	296.00	42. 46		42. 46
	22,212	267.00	18. 51		18. 51
	30,670 51,220	178, 00 297, 00	25. 56 42. 68		25. 56 42. 68
July 8	25,290	147.00	21.08		21.08
•	88,031	511.00	73. 36		73. 36
July 10. July 11.	30,590	172.00	25. 49	[25. 49
July 11	28, (50 86, 030	168. 00 499. 00	23. 88 71. 69		23. 88 71. 69
July 12	96,0u8	432.00	80.06		80.08
	20,970	122.00	17. 48		17. 48
	61,020	384.00	5 0. 85		50. 83
July 13	86,125	326.00 192.00	46, 77 25, 38	3, 81	46. 77 29. 19
	30,450 51,970	343.00	43. 31	2.61	43. 31
July 15	112.340	708.00	93. 61	14.05	107. 66
	60,780	383.00	5 0, 65		50. 65
Tul- 17	32,940 25,330	272.00 160.00	27. 45 21. 11	8. 17	27 45 24 28
July 17July 18.	30.380	191.00	25. 32	3. 80	29. 12
·	30,580	194.00	25. 48	2, 83	29 31
July 19	55 , 950	342.00	46. (3	7.00	53. 63
July 20.	30, ₹ 0 122, (31	192. 00 768. 00	25. 40 101. 70	3. 81 15. 24	29. 21 116. 94
July 24.	\$5,300	348.00	46.08	6. 92	53.00
July 22. July 24. July 27.	60,00	378. ℃	5 0. 05	7.51	57. 56
	60,750	342.00	50 . 62	7.60	58. 22
	1,617,622	10,042.00	1,348.08	76. 74	1,424.82
August 1	30,412 50,710	192.00 320.00	25. 34 42. 26	3. 80 6. 34	29. 14 45. CO
August 5	50,710 112,280 25,7(5	713, 00	93. 57	14.04	48. C0 107. 61
	25,7(5	1(2.00	21.47	3. 22	24.69
August 7	83,260	515.00	69. 38	10. 41 3. 81	79. 79 29. 22
August 8	3 0,490 5 0,035	192.00 319.00	25. 41 42. 19	6.33	48. 52
	60,440	391.00	50. 37	7.56	57. 93
	60,440 27,370	173.00	22. 81	3.41	26. 22
August 12	30.210 60,590	190, 00 382, 00	25. 18 50. 50	3.78 7.56	28, 90 58, 06
Angust 14	30,410	192.00	25. 34	3.81	29. 15
August 14	57,640	3 63. 00	48.03	7. 21 3. 86	55. 24
	30,750	173.00	2 5. 62	8.86	29. 48
August 17	61, 380 30, 300	388.00 191.00	51. 15 25. 30	7.67 3.80	53, 82 29, 10
August 24.	60, 750	383.00	50.62	7.60	58. 22
August 24. August 26.	20, 340	128.00	16. 95	2.54	19 49
-	81, 110	322.00	42. 59	6.39	48. 98
Amount 20	30,500	193. 00 369. 00	25. 47	3. 82 7. 32	29, 29 56, 13
August 28	58. 5(8 30, 4(0	192.00	48. 81 25. 40	3.79	29 19
1	60.550	382.00	50. 46	7.57	. 8. O
A A CO	28, (.00	180.00	23. 83	3.58	27. 41
August 29					
August 31	30, 580	193. 00	2 5. 48	3. 82	29.30

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Data.	Quantity.	Value.	Duty.	Counter- vailing duty.	Total duty.
1907.	Pounds.				
September 3	97, 130 50, 757 82, 720	\$612.00	\$80.94	\$12.14	\$93.08
September 4	50,757	220.00	42. 31	6. 35	48. 66 79. 27 49. 00
	82,720	521.00	68. 93	10.34	79. 27
September 5.	51, 135	322.00	42. 61 25. 26	6.39	49.00
septemoer a	30, 308 30, 625	191. 00 193. 00	25. 52	3. 79 3. 83	29.05
	25,710	162.00	21. 43	3. 21	29. 35
	31,140	196.00	25.95	3, 99	29. 35 24. 64 29. 84
September 6.	60, 637	384.00	50. 53	7. 58	58.11
- · · · · · · · · · · · · · · · · · · ·	96,790	610.00	80.66	12.10	92, 76
September 7	61,580	288.00	51. 33	7. 69	59.02
September 9.	58, 670	830.00	48.89	7. 33	56. 22
	105, 760	666.00	88. 13	13. 22	101. 35
Sentember 11	90, 470 30, 621	560.00 172.00	75. 39 25. 52	11. 31 3. 84	86. 70 29. 36
September 11September 12	30, 490	192.00	25. 41	3. 81	29. 30
	30, 505	172.00	25. 42	3. 81	29. 23
	30,600	193.00	25. 50	3. 83	29.33
September 14	68.120	429.00	56.77	8. 52	65.29
September 18. September 19.	21,360	214.00	17.80	2, 67	20. 47
september 19	61, 635	388.00	51.36	7. 70	89.06
Sentember 00	109,095	1,091.00	90. 91	18.64	104. 55 58. 57
September 20	61,110	385.00	50. 93 33. 98	7.64	58.57
	40,780 30,300	257. 00 303. 00	25. 25	5. 10 8. 79	39. 08 29. 04
September 21	20,620	130.00	17. 18	2.58	19.76
•	66 360	329.00	55.29	8. 30	63. 59
September 23	92,750	584.00	77.29	11.59	88. 88
	99,960	630.00	83. 30	12.50	95. 80
September 25September 26	40,900	258.00	34.08	5. 11	3 9. 19
september 20	55, 900	335.00	46. 58		46. 58
	40, 180 60, 330	253. 00 603. 00	83. 48 50. 28	5.02	38. 50 57. 82
September 27	30, 485	176.00	95.49	7. 54 3. 81	20.23
	21,240	135.00	25. 42 17. 70	2.66	29. 23 20. 36
	102,093	1,021.00	85, 06	12.78	97. 84
September 28September 20	21, 120	119.00	17.60	2.64	20. 24
September 20	154, 630	974.00	128. 87	19.33	148. 20
	26,030	260.00	21.09	8. 25	24.94
	2, 220, 656	24, 058. 00	1,850.55	270.68	2, 121. 18
October 2.	29,580	185.00	24.66	3. 69	28. 35
October 4	30,630	193.00	25. 53	3.83	29. 36
October 5	31,195	197.00	26.00	8. 90	29. 90
October 7	51,925 31,147	328.00 196.00	43. 28 25. 96	6. 49	49. 77 29. 86
	30,265	191.00	25, 21	3. 99 3. 79	29.00
October 10.	69,740	439.00	58. 15	8. 69	66. 84
October 10 October 11	I 25.700 I	152.00	21. 42	8.21	24.63
October 14		230.00	30. 43	8. 21 4. 56	34, 99
October 16. October 21. October 22. October 23.	62, 350	851.00	51.96	7.79	59. 75
October 27	60,530	381.00	50. 44	7.57	58.01
October 23	25,694 71,180	308.00 448.00	21. 41 59. 32	8.90	21. 41 68. 22
	61,700	200.00	51. 42	7.71	50, 13
October 24	20, 490	129.00	17.08	2.56	19. 64
October 24 October 26	l 60.360 l	280.00	50, 30	7.55	57, 85
October 28	20,780	131.00	17. 82	2. 60	19. 92
	719,776	4, 629. 00	599. 89	86. 73	686. 62
November 16	50,910	321.00	42.41	6.37	48.78
	63, 541 119, 320	398.00 767.00	52. 95 99. 42	7.94 14.92	60. 89 114. 34
November 21	128,020	842.00	106. 68	16.00	122, 68
November 22.	25.788	309.00	21. 49		21. 49
November 22	61.400	392, 00	51. 19	7.68	58. 87
	63, 450	421.00	52, 88	7.93	60. 81
	80,757	194.00	25. 68	8.84	29. 47
November 20	80,320	191.00	25. 26	3.79	29.05
ACTUALITY AF	30, 315	171.00 766.00	25. 26 101. 35	8. 79 15. 20	29.06 116.55
November 30	121, 625 30, 610	193.00	25. 51	8.88	29. 84
	756,036	4, 965. 00	630.03	91. 29	721. 82
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December 11.					, ——	
Daember 2.	Date.	Quantity.	Value.	Duty.	vailing	
Daember 2.	1907.	Pounds.				
1008 11.543 199.00 29.28 2.94 30.22 20.20 20.51 57.78 46.65 20.20 20.51 57.78 46.65 20.20 20.51 57.78 46.65 20.20 20.51 57.78 46.65 20.20 20.51 57.78 46.65 20.20 20.51 57.78 46.65 20.20 20.51 20.20 20.2	December 2	81.000	\$195.00	62 5, 82		\$20. 70
December 18.	December 11	63,030		52. 53	7.88	60. 41
December 19.		82,048	199.00	20.28 E1 05		
December 26	December 18	92,680	584.00	77. 23		88.81
December 26	December 20.	184, 683	506.00	112.24		112, 24
December 26	December 24	30,000				25.00
December 27	December 26	86,170			7.02	53. 83
December 28. C2,100 391.00 51.76 7.76 58.3 58.3 58.5 58.3 58.5 58.3 58.5 5	December 97	95,000	112.00	20. 83	7.70	59. U4
1908. 1908. 27,600 193,00 25,50 3,52 29, 37 20, 30	December 28.	62,100		51. 75	7.76	50.51
January 3. 1908. January 4. 27,500 124 00 22 92 60 88 89 89 15	December 30	<i>1</i> 70,000	315.00	58, 33		58, 33
January 3		30,600	193.00	25. 50	3.82	29. 32
January 3.		750, 629	4, 163. 00	625. 57	61. 36	686. 87
January 3.						
January 4.	January 3	27.500	124.00	22.92		22, 92
January 6		51.682	826.00	48.07	6.46	49. 53
Samuary Samu	January 4	61, 260	886.00	51.07		58. 78
Signatury Sign	Tenuera &	50,760				48. 65
January 8. 20,250 128,00 16,96 2,63 19,4 30,000 278,00 25,75 3,86 29,6 117,609 1,058,00 98,01 3,68,00 117,609 1,058,00 98,01 3,68,00 117,609 1,058,00 98,01 3,68,00 117,609 1,058,00 98,01 3,68,00 117,609 1,058,00 98,01 3,68,00 117,609 1,058,00 98,01 3,68,00 117,609 1,058,00 98,01 3,68,00 117,609 1,058,00 98,01 3,68,00 117,609 1,058,00 34,22 5,18 39,3 141,070 370,00 34,22 5,18 39,3 15,100,171,181 20,250 187,00 17,35 2,60 19,9 15,100,171,181 20,250 187,00 17,35 2,60 19,9 15,100,171,181 20,250 187,00 17,35 2,60 19,9 15,100,171,181 20,250 28,00 21,14 3,17 25,370 228,00 21,14 3,17 24,3 26,615 161,00 22,18 3,37 24,3 26,615 161,00 22,18 3,37 24,3 26,615 161,00 22,18 3,37 24,3 26,615 161,00 22,18 3,37 24,3 26,615 161,00 22,18 3,37 24,3 26,615 161,00 22,18 3,37 24,3 26,615 161,00 22,18 3,37 24,3 27,100 194,00 25,88 2,84 22,7 28,100 194,00 25,88 2,84 22,7 29,2465 822,00 77,08 3,78 2,84 29,2465 822,00 77,08 3,78 29,2465 822,00 77,08 3,78 29,2465 822,00 77,08 3,78 29,2465 822,00 77,08 3,78 29,2465 822,00 77,08 3,78 29,2465 822,00 77,08 3,78 29,2465 822,00 77,08 3,78 29,2465 822,00 3,88 3,84 29,2465 822,00 3,88 29,2465 822,00 3,88 29,2465 822,00 3,88 29,2465 822,00 3,88 29,2465 822,00 3,88 29,2465 822,00 3,88 29,2465 822,00 3,88 29,2465 822,00 3,88 29,2465 822,00 3,88 29,2465 822,00 3,88 29,2465 822,00 3,88 29,2465 822,00 3,88 29,2465 822,00 3,88 29,2465 3,88 29,2465 3,88 29,2465 3,88 29,2465 3,88 29,2465 3,88 29,2465 3,88 29,2465 3,88 29,2465 3,88 29,2465 3,88 29,2465 3,88 29,2465 3,88 29,2465 3,88 29,2465 3,88 29,2465 3,88 29,2465 3,88 29,2465 3,88 29,2465 3,88	samual V	61.160	550.00	59.23 80.04	7.65	
January 8		1 70,740	555.00	58.96	8.83	67.79
SO 900 278.00 228.00 28.76 3.86 29.6 117.500 1.058.00 30.460 274.00 25.88 3.81 29.1 30.460 274.00 25.88 3.81 29.1 30.460 274.00 25.88 3.81 29.1 30.460 274.00 25.88 3.81 29.1 30.460 274.00 25.88 3.81 29.1 30.460 274.00 25.80 3.80 20.1 30.4		20, 250	128.00	16.96	2.53	19. 49
117, 609 1,068,00 98,01 98,01 98,01 98,01 14,070 370,00 34,32 5,13 39,31 14,070 370,00 34,32 5,13 39,31 14,070 370,00 34,32 5,13 39,31 14,070 370,00 34,32 5,13 39,31 14,070 380,00 51,09 7,66 58,7 14,000 22,530 383,00 50,72 7,61 58,33 25,570 228,00 21,14 3,17 24,33 25,570 228,00 21,14 3,17 24,33 24,33 25,570 228,00 21,14 3,17 24,33 24,33 25,570 228,00 21,14 3,17 24,33 24,33 25,570 228,00 21,14 3,17 24,33 24,33 25,570 228,00 21,14 3,17 24,33 25,570 228,00 21,14 3,17 24,33 25,570 228,00 21,14 3,17 24,33 25,570 25,600 25,600 77,00 58,73 28,20 27,601 28,20 27,601 28,20 27,601 28,20 28,70 28,20 28,70 28,20 28,70 28,20 28,70 28,20 28,70 28,20 28,70 28,20 28	January 8	61,520	554.00	51.27	7.69	58. 96
January 18. 30, 460 274.00 25.38 3.81 29, 11 January 14. 20, 20 187.00 17.35 2.00 19.9 January 17. 61, 305 336.00 51.09 7.66 58.7 January 20. 60, 860 383.00 50.72 7.61 58.3 22, 570 228.00 21.14 3.17 24.3 226, 615 161.00 22.18 3.3 23.5 31,070 196.00 25.88 2.84 28.7 January 24. 52, 495 582.00 77.08 5.78 31,070 196.00 25.88 2.84 28.7 January 25. 65, 200 415.00 54.92 6.01 January 27. 59, 822 378.00 40.85 7.48 57.3 78, 600 496.00 25.33 3.50 29.1 January 28. 20, 917 132.00 17.43 2.61 January 29. 77, 500 344.00 16.85 3.64 January 29. 77, 500 344.00 17.43 2.61 January 29. 77, 500 344.00 17.43 2.61 20.0 January 30. 20, 502 129.00 17.08 2.56 18.5 January 30. 20, 502 129.00 17.08 2.56 18.5 January 30. 20, 502 129.00 16.96 1.54 18.5 January 30. 20, 707 132.00 17.08 2.56 18.5 January 30. 20, 502 129.00 17.08 2.56 18.5 January 30. 20, 700 135.00 25.22 2.77 29.00 January 30. 20, 700 135.00 25.23 2.77 29.00 January 30. 20, 700 191.00 25.23 2.77 29.00 January 30. 30, 300 191.00 25.23 2.77 29.00 January 30. 30, 300 191.00 25.23 2.77 29.00 January 30. 30, 300 135.00 30, 300 30, 300 30, 300 30, 300 30, 300 30, 300 30, 300 30, 300 30, 300 30, 300 30, 300 30, 300 30, 300 3		117 600	1 058 00	20.78	2.80	29. 61
January 18.		. 60 400	274.00	25. 29	2.81	29. 19
January 23.	January 18	41,070		84. 22		89. 35
January 23.	January 14	20,820			2.60	19. 95
January 23.	January 17	61,305		51.09	7.66	
January 23	Tanuary 20	1 25 370	228.00	21 14		96. 88 94. 31
Sanuary 24		26 615	161.00	22, 18	3, 33	25. 51
January 25. 65, 908 853. 00 46. 67 7. 00 83. 65 anuary 25. 65, 900 415. 00 54. 93 6. 01 60. 9 January 27. 59, 822 878. 00 49.85 7. 48 77. 31 78, 600 196. 00 25. 33 3. 80 29. 11 50. 00 22. 30 3. 80 29. 11 50. 00 22. 30 3. 80 29. 11 50. 00 22. 30 3. 80 29. 11 50. 00 22. 30 3. 80 29. 11 50. 00 22. 30 3. 80 29. 11 50. 00 32. 44 3. 35. 44	January 23	81,070	196.00	25. 88	2.84	28. 72
78, 600 496. 00 66. 57 9. 84 76. 41 50 400 25. 33 3. 80 29. 11 50. 000 225. 00 41. 67 41. 65 50. 000 225. 00 41. 67 41. 65 50. 000 225. 00 41. 67 41. 65 50. 000 225. 00 41. 67 41. 65 50. 000 225. 00 41. 67 41. 65 50. 000 225. 00 41. 67 41. 65 50. 000 225. 00 17. 43 2. 61 20. 00 17. 64 50 12. 64 50 12. 64 50 101. 67 12. 60	Tenues 04	92, 495	582.00		4.78	82. 86
78, 600 496. 00 66. 57 9. 84 76. 41 50 400 25. 33 3. 80 29. 11 50. 000 225. 00 41. 67 41. 65 50. 000 225. 00 41. 67 41. 65 50. 000 225. 00 41. 67 41. 65 50. 000 225. 00 41. 67 41. 65 50. 000 225. 00 41. 67 41. 65 50. 000 225. 00 41. 67 41. 65 50. 000 225. 00 17. 43 2. 61 20. 00 17. 64 50 12. 64 50 12. 64 50 101. 67 12. 60	January 25	65 920		80. 07 64 08		80.04
78, 600 496. 00 66. 57 9. 84 76. 41 50 400 25. 33 3. 80 29. 11 50. 000 225. 00 41. 67 41. 65 50. 000 225. 00 41. 67 41. 65 50. 000 225. 00 41. 67 41. 65 50. 000 225. 00 41. 67 41. 65 50. 000 225. 00 41. 67 41. 65 50. 000 225. 00 41. 67 41. 65 50. 000 225. 00 17. 43 2. 61 20. 00 17. 64 50 12. 64 50 12. 64 50 101. 67 12. 60	January 27	59, 822		49. 85		57. 33
January 28	•	l 78.690			9.84	75. 41
January 28.		80,400	196.00		8.80	29. 13
January 29	January 28	42 531	1 063 00	91. 07 95 44		41. O/
January 29	•	20 017	132,00	17. 43	2.61	20.04
Tanuary 30. 20,502 129.00 17.08 2.56 19.56 101,970 643.00 84.96 12.75 97.71 12.50 12	January 29	77,500	849.00	64. 58		64. 58
Tebruary 4		1 20.502		17.08	2.56	19. 64
Tebruary 4	January 30	20.350	128.00	84. 90 16. 96	12.78	97.71 18.60
February 4. 38,840 245.00 22.36 4.86 37.22 February 8. 30,000 136.00 22.00 22.00 February 10. 76,769 270.00 63.96 63.96 63.99 20,710 136.00 17.26 2.59 19.8 30,270 191.00 25.23 2.77 29.00 February 12. 76,100 479.00 63.42 2.59 66.01 February 13. 74,222 269.00 61.85 61.85 February 14. 72,22 269.00 61.85 61.85 February 15. 30,000 90.00 16.67 16.66 February 15. 30,700 194.00 22.66 2.80 22.47 February 17. 50,131 180.00 41.78 3.79 29.00 February 17. 50,340 191.00 25.68 2.80 28.47 February 18. 22,660 151.00 18.90 2.82 3.79 29.07 February 21. 146,701 496.00 122.25 122.21 140,459 484.00 117.05 117.05 50,000 225.00 41.67 41.67	•	<u> </u>	12, 670, 00			
20,710		-, -, -, -, -, -, -, -, -, -, -, -, -, -		-, 500, 01		-,
20,710	February 4	38,840	245.00	22.34	1 AM	27. 22
20,710	February 5	20,000	135.00	25.00		25.00
30,270 191.00 25.23 3.77 29.00 76,100 479.00 63.42 2.59 66.01 74,222 259.00 61.85 61.81 74,222 259.00 61.85 61.81 74,222 259.00 61.85 61.81 75,366 270.00 25.66 2.78 62.77 75,366 270.00 25.66 2.80 28.47 75,367 25.66 2.80 28.47 25.66 2.80 28.47 25.66 2.80 28.47 25.66 2.80 28.47 25.66 2.80 28.47 25.66 2.80 28.47 25.66 2.80 28.47 25.66 2.80 28.47 25.66 2.80 28.47 25.66 2.80 28.47 25.66 25.67 25.	February 10	76, 759	270.00	63, 96		63. 96
February 13		20,710				
February 15. 74, 222 289. 00 61. 85 61. 81 February 14. 20, 000 90. 00 16. 67 16. 61. 81 February 15. 30, 790 194. 00 42. 78 62. 78 February 17 80, 131 180. 00 41. 78 41. 78 February 18. 22, 680 151. 00 25. 28 3. 79 29. 00 February 21. 146, 701 495. 00 122. 25 122. 21 140, 459 484. 00 171. 05 117. 05 50, 000 225. 00 41. 67 41. 67 50, 000 225. 00 41. 67 41. 67		I 78 100		20. 23 63. 42	2.60	
February 14. 20,000 90.00 16.67 16.67 February 15. 28,0790 194.00 25.66 2.80 28.47 February 17. 80,131 180.00 41.78 41.78 February 18. 22,680 151.00 18.90 2.83 2.91 February 21. 146,701 496.00 122.25 122.21 February 21. 146,459 484.00 117.05 117.05 February 21. 50,000 225.00 41.67 41.67 February 21. 41.67 February 22. 43.67 41.67 41.67 February 23. 441.67 41.67	February 13	74, 222	259.00	61.85		61.88
February 14. 75, 366 270. 00 62, 78 62, 77 February 15. 30, 790 194. 00 25, 66 2. 80 28, 44 February 17. 50, 131 180.00 41, 78 41, 78 20, 340 191. 00 25, 28 3, 79 29, 07		20,000	90.00	16. 67		16. 67
February 17	February 14	75.366	270.00	62.78		62, 78
February 18. 22, 680 151.00 25, 28 3, 79 29.07 27.00 15.00 18.90 2.83 21.73 146, 701 495.00 122.25 122.21 140, 459 484.00 117.05 117.05 50,000 226.00 41.67 117.06 50,000 226.00 41.67 41.65	February 17	80,790 80,131		20.00 41.72	2.80	
February 15. 22, 680 151. 00 18. 90 2. 82 21. 75 146, 701 495. 00 122. 25 122. 21 122. 21 140, 459 484. 00 117. 05 117. 05 50, 000 225. 00 41. 67 41. 67 41. 67		30.340		25. 29	2.70	
140, 459	February 18	1 22 690	151.00	18. 90		21. 73
140, 459	February 21	146,701	495.00	122, 25		122. 25
		140 450	684.00			
		50,000	225.00 225.00			41.67
963, 338 4, 219. 00 802. 79 22. 23 826. 02						
	-	963, 338	4, 219. 00	802.79	23.23	826.02

Date.	Quantity.	Value.	Duty.	Counter- vailing duty.	Total duty.
1900.	Pounds.				
March 4	112,346	8394. 00	\$93. 62		898, 62
	104, 704 40, 270	860.00	87. 25		87. 20
March 5	40,270	135.00	33 . 56		83. 56
March 7	90,000 20,280	185.00 154.00	25. 00 16. 90		25.00
March 10	57,500	259.00	47. 92		16. 90 47. 92
MANUAL 10	57, 500 60, 000	270.00	50,00		50.00
March 11	1 30.000	135.00	25, 00		25. 00
March 12	32, 250	427.00	26. 88		26. 88
	57,500 30,260	259.00	47. 92		27.92
March 13	30,200	197. 00 135. 00	25. 22 25. 00		25. 22
Karch 16	70,000	815.00	58. 33		25. 00 58. 33
Do	1 30.000 /	135.00	25.00		25.00
Warch 21	24,088	310.00	20. 07		20.07
March 21 March 23 March 24 March 27	30,940	201.00	25. 78		25. 78
March 24	60,000	270.00	50.00		80.00
Larch 27	30, 156	2,004.00	66. 80		66. 80
	55,000	248.00	45. 83		45. 81
farch 28	60, 758 68, 770	895.00 270.00	50. 63		50. 61
LARCO 25	08,770	270.00	57. 81		57. 31
	1,084,822	7,008.00	904.02		904.02
April 16	60,000	270.00	50.00		50.00
	l 77 700 l	270.00	64. 67		64. 67
April 22	30, 253	191.00	25. 21		25. 21
\prii 23	60,000	270.00	50.00		50. 0
A pril 22	25,740 40,600	162.00 256.00	21. 45 33. 83		21. 44 33. 81
z pt u <i>ev</i>					
	294, 192	1, 419. 00	245, 16		245. 16
Кву 6	37,800	238.00	31. 50	\$12.28	31.50
May 14	98, 280	590.00	81.90	\$12.28	94. 18
May 25	60, 610 121, 450	388.00 765.00	50, 51 101, 21		50. 51 101. 21
LBJ 49				•••••	
	818, 140	1,981.00	265. 12	12. 28	277.40
•	BUMMARY.				
1907.					
anuary	75, 380	8419.00	\$62. 81	\$9.43	872. 2 4
anuary	142,822	821.00	119.03	12.90	131.9
anuary	142, 822 342, 029	821.00 1.826.00	119.08 285.04	12.90 22.91	181. 9 807. 9
anuary ?ebruary farch Joril	142,822 342,029 1.411.963	821.00 1,826.00 8,952.00	119.08 285.04 1.176.67	12.90 22.91 119.92	181. 90 807. 90 1, 296. 50
anuary	142,822 342,029 1,411,968 1,637,527	821.00 1,826.00 8,952.00 10,250.00	119.08 285.04 1,176.67 1.864.62	12.90 22.91 119.92 82.19	181. 90 207. 94 1, 296. 50 1, 446. 8
anuary. Pebruary March A pril May	142,822 342,029 1,411,963 1,637,527 2,564,978	821.00 1,826.00 8,952.00 10,250.00 19,085.00	119.08 285.04 1,176.67 1,364.62 2,137.45	12.90 22.91 119.92 82.19 67.91	181. 90 807. 9 1, 296. 5 1, 446. 8 2, 205. 3
anuary Pebruary daroth A pril day una una	142,822 342,029 1,411,963 1,637,527 2,564,978 1,617,622	821.00 1,826.00 8,952.00 10,250.00 19,085.00 10,042.00	119.03 285.04 1,176.67 1,364.62 2,137.45 1,348.06	12.90 22.91 119.92 82.19 67.91 76.74 148.04	181. 90 807. 90 1, 296. 50 1, 446. 81 2, 205. 30 1, 424. 80
ianuary. February. March. A pril. May. une. uly A ugust.	142,822 342,029 1,411,953 1,637,527 2,564,978 1,617,622 1,144,220 2,220,656	821.00 1,826.00 8,952.00 10,250.00 19,065.00 10,042.00 7,188.00 24.058.00	119.03 285.04 1,176.67 1,364.62 2,137.45 1,348.06 953.53 1,850.55	12.90 22.91 119.92 82.19 67.91 76.74 148.04 270.63	181. 9 307. 9 1, 296. 5 1, 446. 8 2, 205. 3 1, 424. 8 1, 096. 5 2, 121. 1
anuary. February March. A pril May une une uny Lugust. Leptember	142,822 342,029 1,411,953 1,637,527 2,564,978 1,617,622 1,144,220 2,220,656 719,776	821.00 1,826.00 8,952.00 10,250.00 19,065.00 10,042.00 7,188.00 24.058.00	119.03 285.04 1,176.67 1,364.62 2,137.45 1,348.05 1,850.55 509.80	12.90 22.91 119.92 82.19 67.91 76.74 148.04 270.63 86.73	181. 9 307. 9 1, 296. 5 1, 446. 8 2, 205. 3 1, 424. 8 1, 096. 5 2, 121. 1 686. 6
anuary. ?ebruary farch . pril day . une . uly . ugust . leptember . lotoler . lovember	142,822 342,029 1,411,963 1,637,527 2,564,978 1,617,622 1,144,220 2,220,656 719,776 756,036	821.00 1,826.00 8,952.00 10,250.00 19,085.00 10,042.00 7,188.00 24,058.00 4,629.00 4,965.00	119.03 285.04 1,176.67 1,364.62 2,137.45 1,348.08 953.53 1,850.55 509.89 630.03	12.90 22.91 119.92 82.19 67.91 76.74 143.04 270.63 86.73 91.29	181. 9: 307. 9. 1,296. 5: 1,446. 8: 2,205. 3: 1,424. 8: 1,096. 5: 2,121. 1: 686. 6: 721. 3:
anuary. Pebruary farch A pril day une. uly August Deteiler November	142,822 342,029 1,411,953 1,637,527 2,564,978 1,617,622 1,144,220 2,220,656 719,776	821.00 1,826.00 8,952.00 10,250.00 19,065.00 10,042.00 7,188.00 24.058.00	119.03 285.04 1,176.67 1,364.62 2,137.45 1,348.05 1,850.55 509.80	12.90 22.91 119.92 82.19 67.91 76.74 148.04 270.63 86.73	181. 9 307. 9 1,296. 5 1,446. 8 2,205. 3 1,424. 8 1,096. 5 2,121. 1 686. 6 721. 8
anuary	142, 822 342, 029 1, 411, 963 1, 637, 527 2, 564, 978 1, 617, 622 1, 144, 220 2, 220, 656 719, 775 756, 036 750, 629	821.00 1,826.00 8,962.00 10,250.00 19,085.00 10,022.00 7,188.00 24,058.00 4,965.00 4,163.00	119. 03 285. 04 1, 176. 67 1, 364. 62 2, 137. 45 1, 348. 08 953. 53 1, 850. 55 599. 89 630. 03 625. 51	12.90 22.91 119.92 82.19 67.91 76.74 143.04 270.63 86.73 91.29 61.36	181. 9 307. 9 1, 296. 5 1, 446. 8 2, 205. 3 1, 424. 8 1, 996. 5 2, 121. 1: 686. 6 721. 3 696. 8
anuary. February March. A pril May May Une Uly A ugust September Coctoler November December December January	142, 822 342, 029 1, 411, 963 1, 637, 527 2, 564, 978 1, 617, 622 1, 144, 220 2, 220, 656 719, 778 756, 036 750, 629	821.00 1,826.00 8,962.00 10,250.00 19,085.00 10,042.00 7,188.00 24,085.00 4,629.00 4,163.00	119. 03 285. 04 1, 176. 67 1, 364. 62 2, 137. 45 1, 348. 53 945. 53 1, 850. 55 599. 99 625. 51	12.90 22.91 119.92 82.19 67.91 76.74 148.04 270.63 86.73 91.29 61.36	181. 9 307. 9 1, 296. 5 1, 446. 8 2, 205. 3 1, 424. 8 1, 096. 5 2, 121. 1: 686. 6 721. 3 686. 8
anuary. Pebruary March April Misy une uly August September October November December January February	142, 822 342, 029 1, 411, 963 1, 637, 527 2, 564, 978 1, 617, 622 1, 144, 220 2, 220, 656 719, 776 756, 036 750, 629	821. 00 1, 826. 00 10, 250. 00 10, 250. 00 10, 085. 00 10, 082. 00 24, 058. 00 4, 653. 00 4, 163. 00	119, 03 285, 04 1, 176, 67 1, 364, 62 2, 137, 45 1, 348, 08 953, 53 1, 850, 55 630, 03 625, 51 1, 366, 01 802, 79	12.90 22.91 119.92 82.19 67.91 76.74 143.04 270.63 86.73 91.29 61.36	181. 90 307. 9 1, 446. 8 2, 205. 3 1, 424. 8 1, 096. 5 2, 121. 1 686. 6 721. 3 686. 8
anuary February	142, 822 342, 029 1, 411, 953 1, 637, 527 2, 564, 978 1, 617, 622 1, 144, 220 2, 220, 656 719, 776 756, 036 780, 629	821.00 1,825.00 10,250.00 10,065.00 10,042.00 7,188.00 24,058.00 4,629.00 4,168.00 4,168.00	119.03 285.04 1,170.67 1,364.62 2,137.45 1,348.08 953.53 1,850.55 599.89 630.03 625.51 1,366.01 802.79 904.02	12.90 22.91 119.92 82.19 67.91 76.74 148.04 270.63 86.73 91.29 61.36	181. 90 307. 99 1, 296. 56 1, 446. 8. 2, 205. 3 1, 424. 8 1, 424. 8 2, 121. 16 686. 6 721. 3 696. 8
anuary. Pebruary March. A pril. May. Une. Uly A ugust September Declober November December 1908. Sanuary. March. A pril.	142, 822 342, 929 1, 411, 963 1, 637, 527 2, 564, 978 1, 617, 622 1, 144, 220 2, 220, 656 719, 778 786, 036 780, 629 1, 639, 134 963, 338 1, 084, 822 294, 122	821.00 1,826.00 8,962.00 10,260.00 10,085.00 10,042.00 7,188.00 24,058.00 4,629.00 4,163.00 12,670.00 7,008.00 1,419.00	119.03 285.04 1,176.67 1,364.62 2,137.45 1,953.53 1,850.53 1,850.53 630.03 625.51 1,366.01 802.79 904.02 245.16	12. 90 22. 91 110. 92 82. 19 67. 91 76. 74 143. 04 270. 63 86. 72 91. 29 61. 36	181. 90 307. 99 1, 296. 54 1, 446. 8. 2, 205. 34 1, 424. 8. 1, 096. 5' 2, 121. 14 686. 6 721. 3: 684. 8'
anuary. ebruary farch farch pril fay une uly uly ugust eptember ctolser November December 1908. anuary february	142, 822 342, 029 1, 411, 953 1, 637, 527 2, 564, 978 1, 617, 622 1, 144, 220 2, 220, 656 719, 776 756, 036 780, 629	821.00 1,825.00 10,250.00 10,065.00 10,042.00 7,188.00 24,058.00 4,629.00 4,168.00 4,168.00	119.03 285.04 1,170.67 1,364.62 2,137.45 1,348.08 953.53 1,850.55 599.89 630.03 625.51 1,366.01 802.79 904.02	12.90 22.91 119.92 82.19 67.91 76.74 148.04 270.63 86.73 91.29 61.36	181. 9 807. 9 1, 296. 5 1, 446. 8 2, 205. 3 1, 424. 8 1, 096. 5 2, 121. 1 686. 6 721. 3 686. 8

Record of chemical unbleached wood pulp imported from Canada January 1, 1907, to June 1, 1908.

Date.	Quantity.	Value.	Duty.	Counter- vailing duty.	Total duty.
1907.	Pounds.				
January 2. Do. Do. January 4. January 7. Do. January 8. January 9.	83, 492 37, 965	\$1,632.00	\$139. 16	\$10.29	\$149.45
Do	37,965	723. 00 757. 00	63. 27	4.68	67. 95
Do	39, 560 31, 955	639.00	65. 94 53. 26	4. 87 3. 94	70. 81 57. 20
January 7	82, 150	1,322.00	136. 92	10.12	147.04
Do	66, 952	1, 229, 00	111.59	8.27	119, 86
January 8	38, 176	706.00	63. 63	4.72	68. 35
January 9	38, 513	661.00	64. 19	4.75	68. 94
January V. Do January 12 January 14 Do Do	36, 037 40, 304	674.00 622.00	60. 06 67. 18	4.45	64. 51
Tennery 14	43, 188	801.00	71. 98	5. 32	72. 15 77. 30
Do	41,465	803.00	69. 12	5.11	74. 23
Do	82, 302	1,514.00	137 . 18	10.14	74. 23 147. 32
<u>D</u> o	40,966	764.00	68. 28	5.07	73. 3 5
Do. Do. Do. January 18. January 21. Do. January 24. January 24. January 24. January 26. January 28. Do. Do. Do. Do. Do. Do. Do. Do. Do. Do	42, 462 41, 340	817.00	70.77	5.23	76.00
January 18	41,187	683. 00 759. 00	68. 90 68. 64	5.09 5.09	78. 99
Do	36,298	565.00	60. 49	4.48	78. 73 64. 97
January 24	39,704	764.00	66. 17	4.89	71.06
January 26	34, 639	551.00	57.74	4.27	62. 01
January 28	37, 410	722.00	62. 35	4.61	66. 96
Do	41, 475 39, 044	646.00 716.00	67. 45 65. 09	5.00	72. 45
Do	36, 195	555.00	60. 33	4, 81	69. 90 64. 79
Do	42,787	807.00	71. 32	5. 27	76. 59
Do	42, 141	796.00	70. 23	5. 19	75. 42
Do	41, 833	651.00	69. 72	5. 15	74. 87
	1, 218, 540	21, 855.00	2, 030. 96	150. 24	2, 181. 20
February 5	40, 570	633. 00	67. 61	5.00	72.61
Do	41,932	793. 00 791. 00	69. 89	5. 17	75.06
Do	41, 851 42, 108	814.00	69. 76 7 0. 18	5. 16 5. 19	74. 92 75. 37
February 13	43, 279	662.00	72. 13	5. 33	77.46
February 15	32, 325	497.00	53.87	2.98	57. 85
Do	39, 391	719.00	65, 65	4.85	70.50
February 20	43,719	828.00	72. 84	5. 39	78. 23
Do	41, 096 42, 026	639. 00 674. 00	68. 49 70. 05	5.06 5.18	73. 55 75. 23
Do	41,658	765.00	60.00	5. 13	74. 57
D _a	40, 375	774.00	69. 44 67. 29	4.97	72. 26
February 23. Do . Do . Do . February 25.	41,724	787.00	69. 54	5.14	74.68
Do	39,002	738.00	65. 00	4. 81	69 . 81
Do	34, 982 40, 154	542.00	58. 31	4. 31	62.62
Pahruary 25	36, 341	755. 00 558. 00	66. 98 60. 57	4. 95 4. 48	71. 88 65. 05
Do.	41,762	739.00	69. 60	5. 16	74.76
Do	39, 440	616.00	65. 74	4. 86	70.60
Pobruary 26	40, 292	769.00	67. 16	4.96	72. 12
Do	40,328	774.00	67. 21	4.98	72.19
The	37, 969 33, 079	720.00 572.00	63. 29 55. 13	4.68 4.08	67.97
Do	38,940	754.00	64. 90	4.80	59. 21 69. 70
Do	41, 107	774.00	68. 51	8.07	73.58
Do	40, 197	738.00	66. 99	4.96	71.95
Do D o	40, 387 37, 203	775.00 693.00	67. 31 62. 00	4. 99 4. 61	72.30 66.61
	1, 113, 232	19,891.00	1,855.39	137. 25	1, 192. 64
March 4	79, 299	1,535.00	132. 16	9.78	141.94
March 5	36,692	654.00	61. 15	5.06	66. 21
March 5 Do March 7 March 11	38,026	722.00	63.38	4.69	68.07
March 7.	35,882	645.00	59.80	4.43	64. 23
March 12	42,78 6	813.00	71.31	5. 27	76. 58
March 12. Do. Do.	37,659 42,074	722. 00 813. 00	62.71 70.13	4. 64 5. 18	67. 41 75. 31
Do	38, 679	709.00	64.46	4.77	75.31 69.28
	39,953	733.00	66.59	4.92	71.51
Do					
Do	39, 426	735.00	6 5. 71	4.86	70.57
Do	39, 426 45, 949	823.00	76. 58	5.66	70.57 82.24
Do	39, 426 45, 949 43, 878	823.00 790.00	76. 58 78. 13	5.66 5.41	78.54
Do	39, 426 45, 949	823.00	76. 58	5.66	70.57 82.24 78.54 61.65 81.46

Record of chemical unbleached wood pulp imported from Canada January 1, 1907, to June 1, 1908.—Continued.

				,	
Data.	Quantity.	Value.	Duty.	Counter- vailing duty.	Total duty.
1007	Down do				
1907.	Pounds. 43,072	\$767.00	\$71.96	25.22	877.28
March 15. Do. Do.	42, 469	775.00	70. 78 56. 75	5.23	76. 01
Do	34,050	612.00	56. 75	4. 20	60.95
March 10	32, 186 44, 368	536.00 861.00	53. 64 73. 94	3.97 5.47	57. 6 <u>1</u> 79. 41
Do	81,190	1,291.00	136.66	10. 10	146.75
March 20. Do. Do. March 21.	48,729	872.00	81, 22	6.00	87. 22
Do	47,278	919.00	78.80	5.86	R4 68
March 21	42,050	749.00	70. 10 146. 36	5. 18	75. 28
March 22	87,818 47,075	1,607.00 918.00	78.46	10.82 5.80	157. 18 84. 26
Do	78,651	1,271.00	131.09	9.69	140. 78
March 23	41,817	807.00	69.70	5. 15	74.85
March 25 March 28	46,099	723.00	76.83	5.68	82. 51
MARCH 25	90,844	1,475.00	151.41	11. 19	162. 69
	1,408,846	25, 232. 00	2,348.10	174. 20	2, 522. 30
April 5	43,960	801.00	73. 27	5.42	78. 69
Do	36, 120 45, 873	561.00 891.00	60. 20 76. 45	4.45 5.65	64. 65 82. 10
April 11	43,931	848.00	73. 22	5.41	78. 63
Do	44, 292	949.00	73.83	5. 45	79. 28
Do	41,656	891.00	69. 43	5. 13	74. 56
April 15	85,375	1,340.00 843.00	142.20	10.52	152.81
Do	45, 931 50, 843	1,087.00	76. 55 84. 74	5.66 6.26	82. 21 91. 00
Do	45, 193	835.00	75. 32	5. 57	80.89
Do	91,478	1,647.00	152, 46	11.27	163. 73
April 16	45,410	735 00	75.68	5. 60	81. 28
April 16	50,154 45,591	1,097.00 741.00	83. 59 75. 98	6. 18 5. 63	89. 77 81. 61
Do	44,595	890.00	74.34	5.48	79.82
April 27	44,233	794.00	74.34 73.72	5. 45	79.17
10	00,001	1,769.00	147. 26	10.89	158, 15
April 29. Do.	45,589 43,207	829. 00 797. 00	75. 98 72. 01	5. 63 5. 32	81. 61 77. 33
	981,785	18,345.00	1,636.32	120.97	1,757.29
M 1	48,360	001.00	80, 60		80, 60
May 1. May 2. May 4. Do	89,100	831.00 693.00	65. 16	4.83	69.99
May 4	89,100 40,796	722, 00	68.00	5.02	73. 02
Do	40,562	633.00	67. 61	5.00	72.61
May 6. Do. Do.	40,366	802.00	67. 28	4.97	72. 25
Do	39,996 42,635	647.00 852.00	66. 57 71. 06	4. 93 5. 25	71. 60 76. 31
Do	39,665	648.00	66. 10	4.90	71.00
		572.00	61. 20	4.52	65. 72
Do	40,313	800.00	67. 19	4.97	72. 16
May 10	42,831 42,317	852. 00 661. 00	71. 39 70. 52	5. 28 5. 22	76.67 75 .74
Way 15.	41.029	638.00	68. 38	5.06	73. 45
Do	78,910	1,435.00	131. 51	9.73	141. 24
May 16	48,438	833.00	80.73		80.73
May 9. Do. May 10. May 13. May 15. Do. May 16. May 16. May 10. May 10. May 10. May 10. May 20. Do. Do.	39,852 41,930	703. 00 658. 00	66. 42 69. 88	4. 91 5. 17	71.33 75.05
Do.		791.00	67.12	4.96	72.08
Do	37,242	725.00	62.07	4. 59	66, 66
May 23	38,423	759.00	64.04	4.73	68.77
Do	43,578	868. 00 668. 00	72. 64 61. 22	5.37 4.54	78. 01 65. 76
May 24	36,735 85,046	1,689.00	141.74	10.48	152. N
May 24. Do. Do.	43,918 42,283	801.00	73. 20	5.41	152. 13 78. 61
Do	42,283	841.00	70. 48	5. 21	75, 69
May 25	69,406	1,263.00 810.00	115.68 67.93	8.55 5.03	124. 23 72. 96
Do	40,761 82,166	1,320.00	136.94	10.12	147.06
Do	46 287	928.00	77. 15	5.70	82. 85
May 31. Do. Do. Do. Do. Do.	77,939 45,479	1,571.00 913.00	77. 15 129. 90 75. 80	9.60 5.60	139. 50 81. 40
	1,473,359	26,937.00	2,455.61	169. 65	2,625.26
June 8	38,337	770.00	63. 90	4.72	68. 62
Do	48,259 45,748	967.00	80, 43	5. 95 5. 64	86. 38
Do	10, (18	916.00	76. 25	. 0.04	81. 89

Record of chemical unbleached wood pulp imported from Canada January 1, 1907, to June 1, 1908—Continued.

Data.	Quantity.	Value.	Duty.	Counter- vailing duty.	Total duty.
June 6	Pounds. 79,684 35,243 87,662 48,594 36,792 38,517 40,266 36,287 84,984 38,082	\$1,610.00 582.00 746.00 836.00 781.00 767.00 809.00 702.00 1,719.00 758.00	\$132.81 58.74 62.77 80.99 61.32 64.19 67.11 60.46 141.64 63.47	\$9. 82 4. 84 4. 64 4. 53 4. 75 4. 96 10. 47 4. 70	\$142, 63 63, 08 67, 41 80, 99 66, 85 68, 94 72, 07 64, 93 182, 11 68, 17
	608, 455	11,913.00	1,014.10	68.99	1,083.09
July 3. July 6. Do Do July 11 Do Do July 12 July 13 Do July 15 July 19 Do July 23 Do July 23 Do July 25 July 25 July 26 Do July 25 July 26 July 26 July 28 July 28 July 28 July 28 July 29 July 38	43, 868 91, 705 45, 617 38, 738 82, 238	920.00 1, 001.00 1, 615.00 943.00 943.00 919.00 872.00 828.00 789.00 789.00 789.00 953.00 953.00 953.00 1, 645.00 1, 516.00	88. 64 92. 73 146. 73 78. 29 79. 26 71. 26 72. 96 66. 20 71. 99 71. 35 63. 97 73. 12 182. 84 76. 63 64. 65	6.86 11.02 5.80 5.86 5.67 5.56 6.00 5.40 4.89 5.87 4.71 5.71 5.91 5.62 4.71	88. 64 99. 89 157. 86 84. 09 85. 12 78. 86 82. 32 78. 32 71. 09 71. 09 71. 09 71. 65 85. 57 78. 53 164. 53 164. 53
July 31	44, 861	822.00	74.77	6.63	80. 30
August 1	1, 126, 532 44, 889 89, 681 92, 037 46, 330 40, 888 45, 636 38, 389 42, 159 43, 452 27, 599 78, 966 33, 433	21,082.00 898.00 1,796.00 1,832.00 851.00 723.00 913.00 675.00 796.00 475.00 1,419.00 654.00	74. 81 149. 47 153. 39 76. 05 63. 99 70. 26 72. 42 46. 00 131. 61 55. 74	132. 46 5. 53 11. 05 11. 34 5. 71 5. 04 6. 62 4. 73 5. 19 6. 85 9. 73 4. 12	2,009. 85 80. 34 160. 52 164. 73 82. 39 81. 68 68. 72 75. 45 77. 77 46. 00 141. 34
	623, 469	11,800.00	1,039.12	78. 41	1,112.53
Septamber 30. Septamber 5. Do. Septamber 9. Septamber 11. Do. Septamber 12. Septamber 13. Septamber 18. Septamber 19. Septamber 19. Septamber 30.	29, 322 43, 360 70, 737 36, 957 42, 187 43, 180 98, 275 29, 322 90, 594 44, 408 40, 08 84, 313	578. 00 864. 00 1,339. 00 673. 00 797. 00 849. 00 1,867. 00 575. 00 1,828. 00 785. 00 700. 00 1,501. 00	48. 87 72. 26 117. 90 61. 59 70. 32 71. 99 163. 87 150. 99 74. 01 66. 67 140. 52	5. 24 5. 34 8. 72 4. 56 5. 20 12. 11 5. 24 11. 16 5. 47 4. 93 10. 39	84.11 77.60 126.62 66.15 75.82 77.31 178.91 64.11 162.15 79.60 180.91
	623, 345	11,778.00	1,038.92	78. 44	1, 117. 36
October 10	41,368 115,680 42,235 44,250 43,849 287,382	757.00 2,097.00 839.00 807.00 772.00	68. 94 192. 80 70. 39 73. 75 73. 08	5. 10 14. 25 5. 20 5. 45 5. 40	74.04 207.05 75.59 79.20 78.48
November 1	43,066	862.00	71, 78	5.31	77.00
November 8	81,231 87,177	1,442.00 1,553.00	135.38 145.29	10.00 10.74	146. 38 184. 08

Record of chemical unbleached wood pulp imported from Canada January 1, 1907, to June 1, 1908—Continued.

Date.	Quantity.	Value.	Duty.	Counter- valling duty.	Total duty.
1000	Daniel de				
November 5	Pounds.	8732.00	\$61.68	84.56	366.24
November 5	37,010 84,645	1,700.00	141.07	10.41	151.48
November 8	25.578	147.00	42.64	8.15	45.79
Do	76,413	1,387.00	127. 35	9.43	136.78
Do	42,008	763.00 868.00	71. 10 72. 58	5.26	76.36
Do Do	43,547 89,977	1,503.00	134.96	5. 35 9. 98	77.94 144.94
November 15	64,935 87,264	1,286.00 739.00	108. 22	8.01	116. 23
Do	87,264	739.00	62. 10	4. 50	66.69
November 15. Do. November 15. Do. Do. Do.	35,968	702.00 742.00	59.94	4.43	64.37
November 21	40,869 42,298	771.00	68. 11 70. 49	5.05 5.21	73. 16 75. 70
Do	69,806	1,379.00	116.33	8.61	124. 94
Do. November 23. November 27.	42,691	851.00	71. 16	5. 25	76. 41
November 23	42,746	782.00	71.24	5.27	76, 51
November 27	78,658	1,527.00 1,339.00	131. 10	9.69	140.79
Do	75,606 79,912	1,596.00	126. 01 133. 18	9. 32 9. 86	135. 33 143. 04
AV. 10400000000000000000000000000000000000	14,012	1,000.00	100.10	7.00	193.09
	1,213,063	22,671.00	2,021.71	149.49	2,171.20
December 11	19,467	152.00	32 . 4 5	2, 30	84. 84
December 12.	17,970 44,202	141.00	29.95	2.20	3 2. 15
Do	83, 429	873.00 1,494.00	73. 67 139. 04	5. 45 10. 28	79. 12
Do	38,576	704.00	64. 29	4.75	149. 32 69. 04
December 14.	110,089	2,196.00 757.00	183, 45	18.56	197. 01
December 14	1 28.217	757.00	63. 69	4.71	68. 40 74. 96
December 16	41,875	824.00	69. 80	5. 16	74. 96
December 16	14,145	111.00 1,422.00	23. 58 131. 16	1.74 9.70	25. 32 140. 86
Do. Do. December 18. December 19. Do. December 23. December 24. Do. December 24.	78,693 34,368	625.00	57. 28	4.26	61. 52
December 18	13,365	106.00	22, 27	1.65	23. 92
December 19	17,918 39,058	141.00	29.87	2.20	32.07
Do	39,068	782.00 714.00	65. 10	4.81	69. 91
December 24	40,567 83,890	847.00	67. 61 56. 48	5.00	72.61 56.48
Do.	15,704	126.00	25, 17	1.94	28. 11
December 26	12,936	102.00	21.56	1.59	23. 15
Do		245.00	51.99	8.84	55.83
December 28	24,844	195.00	41.41	8.06	44. 47
****	750, 487. 00	12,537	1,250.82	88. 27	1,839.00
January 2	121, 803	9 919 00	208.00	15.01	218, 08
Do	49 406	2, 313. 00 789. 00	72.38	. 5.35	77.71
January 8. Do. January 6.	41, 915	1.048.00	69. 86	l	69. 86
Do	71,058	1,413.00 741.00	118. 43	8.76	127. 19
January 6	87, 551	741.00 746.00	62. 58 68. 15	4.62 5.04	67. 20
Do	40,890 87,489	720.00	62, 48	4.62	73. 19 67. 10
January 14.	40,811	743.00	68, 01	5.03	78.04
January 17	40,875	787.00	68. 18	5.03	73. 04 73. 16
January 20.	40,728	759.00	67. 88	5.02	72.90
January 0. January 14. January 17. January 20. January 22. January 24.	41,678	832.00 237.00	69. 46	£.14	74. 60 15. 81
January 25	9, 490 87, 183	671.00	15. 81 61. 97	4.58	66. 55
January 25. January 31.	36, 265	804.00	60. 44		60. 44
	641, 164	12, 603. 00	1,068.58	68. 20	1, 136. 78
February 20.	37 477	699.00	62. 45	4.63	67.08
February 21	00,200		63. 65	470	68. 35
FARTISTY 7A	88, 187	714.00	00.00	1.10	
Pahenae 00	37, 477 38, 187 38, 372	713.00	63. 95	4.70 4.78	68, 68
February 20 February 21 February 25 February 28	119,858	713.00 2,156.00	63. 95 199. 77	14.76	68, 68 214, 53
	119, 858 233, 894	713.00 2,156.00 4,282.00	63. 95 199. 77 389. 82	14.76 28.82	68. 68 214. 53 418. 64
	119, 858 233, 894	713.00 2,156.00 4,282.00 726.00	63. 95 199. 77 389. 82 57. 05	14.76 28.82	68. 68 214. 53 418. 64 61. 28
	119, 858 233, 894	713.00 2,156.00 4,282.00 726.00	63. 95 199. 77 389. 82	14.76 28.82	68. 68 214. 53 418. 64 61. 28 71. 45
	119, 858 233, 894	713.00 2,156.00 4,282.00 726.00 726.00 1,386.00 578.00	63. 95 199. 77 389. 82 57. 05 66. 54 119. 23 51. 27	14.76 28.82 4.22 4.91 8.82 3.79	68. 68 214. 53 418. 64 61. 28 71. 45 128. 05 55. 06
	119, 858 233, 894	713.00 2,156.00 4,282.00 726.00 726.00 1,386.00 578.00 715.00	68. 95 199. 77 889. 82 57. 05 66. 54 119. 28 51. 27 64. 74	14.76 28.82 4.22 4.91 8.82 3.79 4.70	68, 68 214, 53 418, 64 61, 28 71, 45 128, 05 55, 06 69, 53
March 4	119,868 233,894 34,232 89,920 71,543 80,764 38,842 35,990	713.00 2,158.00 4,282.00 726.00 1,386.00 578.00 715.00 700.00	68. 95 199. 77 889. 82 57. 05 66. 54 119. 28 51. 27 64. 74	14.76 28.82 4.22 4.91 8.82 3.79 4.70 4.43	68. 68 214. 53 418. 64 61. 28 71. 45 128. 05 55. 06 69. 53 64. 41
March 4	119, 868 233, 894 34, 232 89, 920 71, 543 80, 764 88, 842 35, 990	713.00 2,158.00 4,282.00 726.00 1,386.00 578.00 715.00 700.00 671.00	63. 95 199. 77 389. 82 57. 06 66. 54 119. 23 51. 27 64. 74 59. 98 61. 70	14.76 28.82 4.91 8.82 8.79 4.79 4.43 4.51	68. 68 214. 53 418. 64 61. 28 71. 45 128. 05 55. 06 69. 53 64. 41 66. 21
	119,868 233,894 34,232 89,920 71,543 80,764 38,842 35,990	713.00 2,158.00 4,282.00 726.00 1,386.00 578.00 715.00 700.00	68. 95 199. 77 889. 82 57. 05 66. 54 119. 28 51. 27 64. 74	14.76 28.82 4.22 4.91 8.82 3.79 4.70 4.43	68. 68 214. 53 418. 64 61. 28 71. 45 128. 05 55. 06 69. 53 64. 41

Record of chemical unbleached wood pulp imported from Canada January 1, 1907, to June 1, 1908—Continued.

Quantity.	Value.	Duty.	Counter- vailing duty.	Total duty.
88, 473 41, 491 42, 145 38, 167 81, 473 85, 226	\$788.00 738.00 735.50 804.00 812.00 735.00 1, 467.00 2,064.00 706.00 1,598.00 1,471.00 775.00	\$68. 06 61. 52 64. 12 69. 15 70. 24 63. 61 135. 78 62. 68 139. 62 63. 61 63. 66 66. 83	\$5. 03 4. 55 4. 74 5. 11 5. 19 4. 70 10. 04 4. 34 14. 01 4. 63 10. 32 9. 65 5. 03	\$73. 09 66. 07 68. 86 74. 43 68. 81 145. 82 63. 06 208. 46 67. 31 149. 94 140. 16 71. 77
1, 185, 231	22, 448. 00	1, 975. 44	146.00	2, 121. 44
39, 351 39, 382 39, 496 35, 789 37, 632 657, 642 42, 570 37, 740 42, 596 24, 596	774. 00 738. 00 1, 438. 00 794. 00 1, 002. 00 870. 00 654. 00 654. 00 662. 00 662. 00 669. 00	69. 78 67. 23 128. 80 70. 23 129. 39 64. 31 68. 16 55. 97 60. 33 61. 63 61. 63 59. 66. 47 65. 83 59. 65 62. 72 1,096. 09 70. 99 87. 27 62. 41 32. 63 73. 93 62. 04	5. 16 4. 97 9. 52 5. 19 9. 57 4. 76 5. 04 4. 56 4. 92 4. 87 4. 41 4. 64 67. 60 5. 24 4. 65 5. 25 5. 25	74. 94 72. 20 76. 42 78. 60. 66 73. 20 60. 33 66. 33 71. 39 70. 77 64. 68 65. 59 71. 39 72. 77 64. 68 65. 52 76. 24 66. 63
			<u>'</u>	<u> </u>
MMARI.				,
1, 218, 540 1, 113, 232 1, 408, 846 981, 785 1, 473, 359 608, 455 1, 126, 532 623, 469 623, 345 287, 382 1, 213, 053 750, 487 641, 164 233, 894 1, 185, 642 295, 869	\$21, \$85, 00 14, \$91, 00 25, 32, 00 18, 345, 00 11, 913, 00 21, \$22, 00 11, \$00, 00 11, \$00, 00 11, \$72, 00 22, \$71, 00 12, \$37, 00 12, \$63, 00 4, 282, 00 21, 722, 00 21, 722, 00 5, 866, 00	\$2, 030. 96 1, 856. 39 2, 348. 10 1, 636. 61 1, 014. 10 1, 877. 39 1, 038. 92 478. 96 2, 021. 71 1, 250. 82 1, 968. 58 389. 82 1, 975. 44 1, 066. 09 493. 12	\$150. 24 137. 25 174. 20 120. 97 169. 65 68. 99 132. 46 73. 41 78. 44 35. 40 149. 49 88. 27 68. 20 28. 82 146. 60 28. 70	\$2, 181. 30 1, 992. 4 2, 522. 80 1, 767. 29 2, 625. 30 1, 083. 09 2, 101. 53 3, 117. 30 2, 171. 30 1, 136. 78 418. 64 2, 121. 44 1, 163. 69 1, 163. 69 1, 163. 69
	Pounds. 40,832 86,911 88,473 41,491 42,145 88,167 81,472 85,226 113,671 178,305 40,836 40,096 1,185,231 41,866 40,338 77,277 42,138 85,877 40,893 33,584 40,893 33,584 40,893 33,584 40,893 33,584 40,893 33,584 40,893 33,584 40,893 33,584 40,893 33,584 40,893 33,584 40,893 33,584 40,893 33,584 41,185,831 41,111,111,111,111,111,111,111,111,111	Pounds. 40, 832 85, 911 88, 473 735, 00 41, 491 804, 00 81, 473 37, 600 83, 771 1, 673 37, 600 775, 00 1, 1598, 00 40, 096 744, 00 1, 185, 231 22, 448, 00 41, 866 774, 00 40, 338 775, 00 40, 338 775, 00 40, 338 775, 00 40, 338 776, 00 77, 277 77, 277 77, 277 77, 432 88, 587 840, 096 774, 00 36, 982 36, 982 36, 982 36, 982 37, 603 39, 882 39, 486 39, 882 39, 486 39, 882 39, 486 39, 882 39, 486 39, 882 39, 486 39, 882 39, 486 39, 882 39, 486 39, 882 39, 486 39, 882 39, 486 39, 882 39, 486 39, 882 39, 486 39, 882 39, 486 39, 882 39, 486 39, 882 39, 486 39, 882 39, 486 39, 882 39, 486 37, 632 687, 632 687, 632 687, 632 687, 632 687, 632 687, 632 687, 632 687, 632 687, 632 687, 632 687, 632 687, 632 687, 632 687, 632 687, 632 687, 632 688, 636 688, 637 688, 636 688, 636 688, 636 688, 636 688, 636 688, 637 688, 636 688, 636 688, 637 688, 636	Pounds. 40, 832	Quantity. Value. Duty. valing duty.

No importations of filter mass, or filter stock under paragraph 395, during the period from January 1, 1907, to June 1, 1908.

Record of printing paper imported from Canada from January 1, 1907, to June 1, 1908.

Date.	Quantity.	Value.	Duty.	Counter- vailing duty.	Total duty.
1907.	Pounds.				
March 13.	40,761	\$674.00	\$122, 28		<u> </u>
March 27	38, 930	644.00	116.79		
March 27 March 28 March 30	38, 930 37, 990	689.00	113.97		
March 30	37, 473	680.00	112.42		
	155, 154	2,687.00	465. 46		\$465. 4
April 2	79, 127	1, 438.00	287. 38		
April 4	5 3, 60 3	887.00	160. 81		
April 8	48, 350	878.00	145.05		
Do	28, 544 48, 797	472.00 807.00	85. 63 146. 39		
April 19	50, 180	938.00	150, 54		
April 13. April 20. Do	41,912	813.00	125. 74		·····
Do	37, 151	613.00	111. 45		l
April 25	36, 759	713.00	110. 28		
April 27	84, 532	632.00	103. 60		
	458, 955	8, 291. 00	1, 376. 87		1, 876. 8
May 1May 3	39, 837	745.00	119. 51		
May J	50, 475 34, 406	944.00 637.00	161. 43 103. 22		
May 6	34, 406	637.00	103.22		
Do	41, 337 34, 979	765. 00 617. 00	124.01 104.94	·····	
Do	20, 232	879.00	60.70		
Do	78, 826	1, 459.00	£36. 48		
May 0	128, 260	2, 386. 00	384. 78		
Way 14	28, 520	471.00	85. 56		
May 9 May 14. May 20.	38, 268	708.00	114.80		
130	51, 178	960.00	153. 53		
May 21	32 ,030	570.00	96.09		
May 21. May 24. May 28.	48,568	899.00	145. 70 100. 59		- · · <i>· · · ·</i> · · ·
May 28	33, 531	620.00	100.59	· · · · · · · · · · · · · · · · · · ·	
may 29	29, 838	552.00	89. 51		••••••
	690, 285	12,712.00	2,070.85		2,070.8
Tune 3	100, 961	3,719.00	302.88		
une 10	30, 176	558.00 628.00	90. 53 101. 78		
June 17	23,927 41,218	763.00	123. 65		
Tune 18.	40,666	752.00	122.00		
June 18	41,873	775.00	125. 62		
une 25	35,863	663.00	107. 59		
June 29	44,573	825.00	183. 72		
	369, 257	8, 683. 00	1, 107. 77		1,077.7
July 5	45, 200	836.00	135, 60 148, 79		
	49,595	918.00 896.00	145. 36		
(nlv 15	48, 452 87, 006	685.00	111.02		
uly 17	37,548	697.00	112.64		
uly 17	45, 109	835.00	135, 33		
July 25	81,846	1,556.00	245, 54		
Tuly 20	40, 194	744.00	120. 58		
_	384, 950	7,167.00	1, 154. 86		1,154.8
August 2	44, 794 35, 947	829 ·00 665.00	134. 38 107. 84		
August 9 August 10	44 785	644.00	134. 36		
Do.	44, 785 39, 772	736.00	119. 82		
August 26	45, 844	839.00	136.03		
•	210, 642	3, 713. 00	631.93		631. 9
Sentember 2	72,014	1,832.00	216, 05		
Do	43, 610	807.00	130, 83		
Beptember 3Beptember 4	39,844	727.00	119. 53	1	
September 6	88,649	705,00	115.96		
september 7	40,653	782.00	121.96		
Do	26, 036	482.00 839.00	78. 11		
Do	45, 384 2, 063	38. 00	136. 15 6. 19		
	308, 253	5,692.00	924.78		924.7

Record of printing paper imported from Canada from January 1, 1907, to June 1, 1908—Continued.

Data.	Quantity.	Value.	Duty.	Counter- valling duty.	Total duty.
1907.	Pounds.			[
October 7	39, 876 44, 842	\$788.00 930.00	\$119.63 134.63		
	84,718	1,668.00	254. 16		
November 7	86, 483	675.00	109. 45		
December 14	74,000	1,406.00	222.00	\$15.76	\$237.7
December 17	36,000	684. 00	108.00	7.67	115.6
December 20	36,500	699.00	109. 50	7.77	117.2
December 24	43,200 42,300	781.00	129. 60 126. 90	9. 20	138. 8 135. 9
Do	41,700	809.00 792.00	125. 10	9. 01 8. 88	133.9
Do	36,200	688.00	108.60		116.3
Do	76,500	1.465.00	229.50	7. 71 16. 29	245.7
Do	116,400	2,229.00	349. 20	24.79	373.9
Do	42,700	811.00	128. 10	9.09	137.1
Do	84,700	1.609.00	254.09	18.04	272.1
200000000000000000000000000000000000000					
'	630,200	11,977.00	1,890.59	134, 21	2,024.8
1908.		į			
anuary 2	87,400	710.00	112, 21	7.96	120. 1
February 12	40.395	768.00	121. 19		121. 1
February 24	85,927	683.00	107. 78		107.7
	76,322	1,451.00	228. 97	•••••	228.9
S	UMMARY.				
. 1907.					
March	155,154	\$2,687.00	\$465, 46		8465. 4
\pril	458,955	8,291.00			1,376.8
Сау	690,285	12,012.00	2,070.85	J	2,070.8
une	369,257	8,683.00	1,107.77		
uly	384,950	7,167.00	1,154.86		1,154.8
lugust	210,642	3,713.00	631.93		631.9
eptember	308,253	5,692.00	924. 78		924.7
October	84,718 36,483	1,668.00 675.00	254, 16 109, 45		254. 1
December	630,200	11,977.00	1,890.59	\$134.21	109. 4 2,024. 8
1908					,
anuary	87,400	710.00	112, 21	7.96	120, 1
February	76,322	1,451.00	228.97		228.9
	8,442,619	65, 426. 00	10,327.90	142.17	10, 470. 0

Record of pulp wood imported at the port of Port Huron, Mich., from Canada, January 1, 1908, to June 1, 1908.

Date.	Cords.	Value.	Duty.
April 1907. May June July August September October November December 1908. January February April May May	932 1,265 4,215 4,211 6,253 4,831 2,289 134	\$1, 596. 00 4, 223. 00 4, 090. 00 15, 277. 00 19, 595. 00 29, 012. 00 23, 094. 00 11, 400. 00 867. 00 44. 00 45. 00 125. 00	

PORT OF DETROIT, MICH.

Imports received from January 1, 1907, to June 1, 1908.

MECHANICALLY GROUND WOOD PULP.

Whence arrived.	Date of arrival.	Quantity.	Value.	Specific duty.	Counter- vailing duty.
	1907.	Pounds.			
Quebee	. Jan. 2	36,000	8226.00	\$30.00	
Do Do	Jan. 4	104, 442 146, 535 80, 742	509.00 798.00	87.04 122.12	\$13.06
Do	do	80.742	440.00	67. 29	18.31 10.09
Do	Jan. A	30, 125	170.00	25, 10	2 77
Do	. Jan. 7	71,160	388.00	59.30	8.77 8.90
Do Do	. Jan. 9	41,310	225.00	84. 43	5. 17
Do	do Jan. 14	90,490 118,440	488.00 646.00	75. 41 98. 70	
Do	Jan. 15	74,883	748.00	62.36	14. 81 2. 81
Do	do	37,416	365, 00	31. 18	1. 40
Do	do Jan. 16	37,416 149,755	822, 00	124. 80	18.72
Do	do	48,746	926.00	40.62	
Do Do	do Jan. 18	53,902 43,653	998.00 437.00	44. 92 36. 38	1.64
Do	Jan. 22	193,320	1,837.00	161.10	1.64 7.25
Do	do	87,800	496.00	31.50	1.20
Do Do Do	do Jan. 23	26,860	479.00	30. 72	
<u>D</u> o	. Jan. 25	87,417 30,810	374.0 0	31. 18	1.40
Do Do	do	30,810	168.00	25.68	8.85
		30,810 74,834	168.00 748.00	25. 68 62. 36	8. 85
Do Do	Feb. 1	55,780	304.00	46. 48	2. 81 6. 97
Do	do	87,397 85,910	590. 00	31. 17	4 61
Do	do	85,910	468.00	71.60	10.78
Do	. do	34,092	540.00	28. 41	4.20
Do	Feb. 5	49,680 88,805	646.00 484.00	41.40	
Do	Reb. 7	26,400	304.00	74.00 22.00	11.05
Do	Feb. 8	55, 410	322.00	46. 18	6,93
D0	. Feb. 12	137,920	750.00	114.93	3.97
	do	87,800	491.00	31.50	
Do	do	75, 221	752.00	62.68	2. 82
Do	do Feb. 16	90,920 49,940	496. 00 590. 00	75. 77 41. 62	11.37
Do	do	30, 220	165.00	25. 16	3.70
Do	Feb. 18	25, 380	138, 00	21. 15	8 17
<u>D</u> o	do Feb. 23	62, 362	624.00	51.97	2. 34
Do	. Feb. 23	31, 342 53, 329	313.00	26. 12	1.18
Do	do Feb. 25	49, 100	633. 00 638. 00	52.77 40.92	2.35 6.14
Do	مام ا	60, 960	827.00	50, 80	7.62
Do	. Feb. 26	56,040	806, 00	46, 70	7.01
Do	do Feb. 27	40, 830	222.00	34. 03	8.11
Do Do	Feb. 27	27, 900 51, 280	156. 00 280. 00	23. 25 42. 73	3.49
Do	Feb. 28	30,700	167.00	25.58	6.41 3.84
Do	do	57,370	302.00	47.82	6.92
Do	do Mar. 4	30, 480	166.00	25. 40	3.81
<u>D</u> o	do	63, 436	634.00	52. 86	2.28
Do	. do	80,000	164.00	25.00	3. 75
Do	do	80, 120 142, 100	164. 00 774. 00	25. 10 118. 42	8.77 17.78
Do Do	do	90, 500	1,069.00	75. 42	
D0	. Mar. 11	90, 500 73, 220	444, 00	61.02	9, 15
Do	l do	30, 550	167.00	25. 46	3. 82
Do	do	20, 420	111.00	17.02	2.55 10.21
Do	do Mar. 13	81, 650 30, 350	445.00 165.00	68. 04 25. 29	10.21 3.80
Do	do	26, 205	143.00	21.84	1.28
ДО	. Mar. 14	85, 858	377.00	29.88	1.35
Do	do Mar. 15	21,723	391.00	18. 10	
Do	. Mar. 15	51,938	283. 00 359. 00	43. 28 29. 88	6.49
Do	do Mar. 16	35,858 61,610	336.00	51.33	1. 35 7. 70 3. 77
Do	.ldo	80, 150	164.00	25. 13	1 77
The	40	50, 910	854.00	42, 48	6.39
Do Do	. Mar. 18	46,700	526.00	38. 92	
Do	do	74, 180	839.00	61.82	
Do	Mar 20	36, 291 71, 716	363. 00 717. 00	3 0. 24 59 . 76	1.36 2.69
Do	Mar. 22	37,800	428.00	81. 50	
Do	do Mar. 23	35,850	250.00	29.88	1.85
Do	Mar. 23	30, 430	166.00	25. 36	1 21
Do	Mar. 24	20, 270 32, 650	132.00 162.00	16. 89 27. 21	2.54 4.08
•	.: E.R. 25	az, 000 l	102.00	27.21	4.08

PORT OF DETROIT, MICH.—Continued.

' Imports received from January 1, 1907, to June 1, 1908—Continued.

MECHANICALLY GROUND WOOD PULP-Continued.

Whence arrived.	Date of arrival.	Quantity.	Value.	Specific duty.	Counter- vailing duty.
	1907.	Pounds.			
Quebec	Apr. 8	48,750 85,858	\$278.00 359.00	\$40.68 29.88	\$1.35
Do Do	do	60,730	394. 00	50. 61	7.59
Do	Apr. 9	60, 730 85, 740	404.00	29.78	
Do Do	Apr. 17	1 26.858 1	850.00	29, 88	1. 35
Do	Apr. 24	17,601 179,290	817.00	14.67	<u>-</u>
Do	Apr. 29 May 1	85, 920	1,703.00 \$59.00	149. 41 29. 93	6.73 1.35
Do	May 7	31, 181	859.00	25. 98	1.17
Do Do	dodo	1 20.767	378.00	29.98	1.35
Do	May 8	22,558 1	173.00	18.80	
Do	May 9	18, 245	189.00	15. 20	5, 85
Do Do		155, 905 23, 396	1,481.00 269.00	129. 92 19. 49	0.80
Do	May 20	23, 386 18, 262	189.00	15. 22	.00
Do	May 22	15,684	180.00	13. 07	
Do	do	81,181	859.00	25. 98	1.17
Do	do	36,229	362.00	30. 19	1.30
Do	May 27	80,100	211.00 211.00	25. 09 26. 09]
Ouebec	May 23	30,100 48,000	288. 00	40.00	
Do	do	34,620	450.00	28. 85	
Do	June 1	22,580	294.00	18, 82	
DoOntario	June 3	27,950	196.00	23. 29	
Do	June 4	l 277.950 l	196.00	23. 29	
Do	June 10	27,950 27,000	196.00 218.00	23. 29 22. 50	
Do	June 15	57,700	682.00	48. 08	
Do	June 18	25,800	181.00	21.50	
Quebec	do	84,620	409.00	28, 85	
Do	dodo	22,680	318.00	18.90	
Do	June 18	84,020	476.00	28. 35	
Do	June 18	84,620 45,000	409.00 363.00	28. 85	
Do	June 19 June 20	34,620	450.00	37. 50 28. 85	
Do	June 22	35, 858	894.00	29. 88	1.35
Do	do	36, 291	417.00	30, 24	1. 35 1. 36
Do Do	June 24	60,610	408.00	50. 51	
Do	do	46, 160	645.00	38. 47	
Do	June 25 June 26	34,620 45,360	359.00 536.00	28. 85 87. 80	
Do	June 26	84,620	409.00	28. 85	
Do	do	84,620	409.00	28, 85	
Dα	Bile 3	57,600	346.00	48.00	
DoQuebec	do	36, 229	399.00	30. 19	1.36
Quepec	July 5	65,931 59,900	791.00 337.00	54, 94 49, 92	2.47
Do New Brunswick Ontario Quebec	July 6	36,756	698.00	30.63	
Ontario.	July 6	34,400	206.00	28. 67	
Quebec	July 10	34,620	409.00	28, 85	
		817,896	8, 756. 00	264. 91	
DoOntarioQuebec	do	29,826 30,490	298.00	24.88	1.12
Onehee	July 12	30, 490 35, 858	172.00 412.00	25. 41 29. 88	1.09
Do	do	35, 858 72, 086	793.00	60.07	2 70
Do	40	l 28.720 ĺ	339.00	23. 94	
Ontario Quebec Do	July 16	53,680	362.00	44. 73	
Quebec	do	35,220	416.00	29. 35	<u>-</u> -
Do		71,839 31,181	790. 00 359. 00	59. 87 25. 98	2.70 1.17
Do	do	34,627	409.00	28. 86	1.11
Do	July 18	84,627	409.00	28, 86	
Do	do	60,200	302.00	50. 17	
Quedec	do	29,826	343.00	24. 86	1.12
Do	do	176, 173 23, 925	2,081.00	146. 81	1.72
Do	July 23	23,925 46,170	197.00 546.00	19. 94 38. 48	1.73
Do	do	36, 167	408.00	30. 14	1.36
Do	do	50,960	344.00	42. 47	
<u>D</u> o	July 25	62,792	691.00	52. 33	2.34
		23.085	273.00	19. 24	ļ
Do Do	1 40	75, 252 62, 362	527.00 686.00	62. 71 51. 97	2.34
Do	do	81,611	364.00	26. 34	1.19
Do	Aug. 7	81,700	572.00	68.08	
Do		96,535	676.00	80. 45	•

PORT OF DETROIT, MICH.—Continued.

Imports received from January 1, 1907, to June 1, 1908-Continued.

MECHANICALLY GROUND WOOD PULP-Continued.

Quabec	Counter- valling duty.	Specific duty.	Value.	Quantity.	Date of arrival.	Whence arrived.
Do						Omehoo
Dec. Alig. 20 68, 114 728,00 52, 20	\$2. \$1 7. 30			58, 222 58, 350		
Dec.	2.37			63, 114	Aug. 20	Do
Do.	8.01	66, 95	884.00	80, 334	dol	Do
Do.	1.12	24 77	342.00	29,724	do	Do
Do.		48.00		51,600	00	Do
Do.	2.3			31 570	do	Do
De	1.1	25, 98	359.00	31, 181	do	Do
Dec. Sept. 11 31, 181 389, 00 22, 98		29.87	423, 00	35,840	Aug. 27	
Dec. Sept. 11 31, 181 389, 00 22, 98	8.4	76. 65	1,012.00	91,983	Sept. 7	Do
Do.			850.00	97,780	00	Do
Data	1.17 9.20	40. 98 61 32	463.00	73 580	360	Do
Quebec .			223.00	32,250	Sept. 13	Ontario
Do.		29.36	416.00	3 5, 235	dol	Quebec
Do	1.1		359.00	31, 181	Sept. 16	Do
Do. Sept. 19	16.6		842.00	183,540	Bept. 18	Do
Do.	2. 5 2. 4			65, 480	Sept. 19	Do
Do	8.7	25, 23		30, 270	dol	Do
Do			437.00	62,350	Sept. 21	Ontario
Do			273.00	23,085	do	Quebec
Do				71 718		
Comparison Sept. 28 27,900 198,00 23,25	2.6 8.0	53.75	406.00	64 500	Sept. 26	Do
Quebec Oct. 2 77,716 789,00 59,76	1			27,900	Sept. 28	Ontario
Do	2.6		789.00	71,716 (Oct. 2	U.118D6C
Do	10. 10			80,750		Do
Do	20.7		126.00	31,540	Oct. 8	Do
Do	20.7			86,000	do	Ontario
Do	1.3			35, 858	Oct. 7	Quebec
Do	1.3	29. 88	412.00	35, 858	do	Do
Do	2.6	81.76		77,716	do	Do
Do	1. 3 19. 5	29.88		156 467		Do
Dotatio	13.9	130.38	703.00	111, 495	Oct. 9	Do
Do	20.5		588, 00	83,850	Oct. 14	Protection
Dec		66. 65	480.00	79,980 [do	Do
Do	16. 9	112. 42				Anenec
Dec	22. 1 1. 3		412.00	25 252	do	Do
Do	2.2	49.37		59, 244	Oct. 21	Do
Do	1.3	29.88	412.00	35, 858	ا ماہ	Do
Do	15. 4			123, 220	do	Do
Do	7. 4	49. 69	1 046 00	59,625	Oct. 22	Do
Do	23. 1 18. 2	104. 09		146 000	ا متما	Do
Official of the control of t	1.7	39. 38		47, 255	do	Do
Official Control Oct. 25 30, 100 211. 00 25. 68 Quebec. do		48.00		57,600	Oct. 23	Do
Official of the control of t		24.00			do	Do
Quebee .do 208,497 1,349.00 173.75 Do .do .20,930 117.00 17.44 Ontario Oct. 28 90,300 12,200 75.25 Quebee Oct. 29 205,400 1,294.00 171.22 Do .do 37,646 375.00 31.18 Do .do 37,646 375.00 31.29 Do .do 37,646 375.00 24.00 Do .do 47,780 365.00 24.37 Do .do 47,780 365.00 39.82 Do .do 35,240 488.00 29.37 Do .do 251,710 1,586.00 209.76 Do .do 251,710 1,586.00 209.76 Do .do 2362 1,251.00 165.44 Do .do 2362 748.00 615.42 Do .do 71,716 799.00 79.76 Do	2.6			71,716	do	Onterio
Ontain Oct. 28 90,300 542.00 75.25 Quebec Oct. 29 205,460 1,24.00 171.22 Do .do 37,476 375.00 31.18 Do .do 37,546 375.00 31.28 Do .do 173.00 24.00 Do .do .47,780 565.00 39.82 Do .do .47,780 565.00 39.82 Do .do .35,240 458.00 29.37 Do .do .251,710 1,586.00 209.76 Do .do .236,22 748.00 51.97 Do .do .62,362 748.00 51.97 Do .do .62,362 748.00 51.97 Outside .do .71,716 759.00 79.76 Do .do .81,70 215.00 169.76 Do .do .71,716 759.00 79.76 Do .do .38	26.0	20. US	1 840 00		do 25	Duebec
Ontain Oct. 28 90,300 542.00 75.25 Quebec Oct. 29 205,460 1,24.00 171.22 Do .do 37,476 375.00 31.18 Do .do 37,546 375.00 31.28 Do .do 173.00 24.00 Do .do .47,780 565.00 39.82 Do .do .47,780 565.00 39.82 Do .do .35,240 458.00 29.37 Do .do .251,710 1,586.00 209.76 Do .do .236,22 748.00 51.97 Do .do .62,362 748.00 51.97 Do .do .62,362 748.00 51.97 Outside .do .71,716 759.00 79.76 Do .do .81,70 215.00 169.76 Do .do .71,716 759.00 79.76 Do .do .38	2.6		117.00	20,930	do	Do
Do .do 37,417 430.00 31.18 Do .do 37,546 375.00 31.18 Do .Oct. 30 28,800 173.00 24.00 Do .Nov. 1 29,240 380.00 24.37 Do .do .47,780 565.00 39.82 Do .do .35,240 458.00 29.37 Do .do .251,710 1,886.00 209.76 Do .do .2362 748.00 51.97 Do .do .62.362 748.00 51.97 Outside .do .71,716 759.00 79.76 Do .do .71,716 759.00 59.76 Do .do .38,170 215.00 31.81 Do .do .38,170 215.00 31.81 Do .do .38,170 215.00 31.81		75. 25	542.00	90, 300	Oct. 28	United to the contract of the
Do do 37,546 375,00 81,29 Do Oct. 30 28,800 173,00 24,00 Do Nov. 1 29,240 380,00 24,37 Do .do 47,780 565,00 39,82 Do .do 33,240 468,00 29,37 Do .do 251,710 1,586,00 20,76 Do .do 251,710 1,586,00 20,78 Do .do 74,80 555,00 198,528 Do .do 62,362 748,00 165,44 Dritario .do 71,716 789,00 98,16 Quebec .do 71,716 789,00 99,76 Do .do 38,170 215,00 31,81 Do .do 38,170 215,00 31,81 Do .do 38,170 215,00 30,81	25. 6	171. 22	1, 294. 00	205, 460		Une Dec
Do	1.4	31. 18				Do
Do	1	24 00				Do
Do				29, 240	Nov. 1	<u>D</u> 0
Do. .do .251,710 1,586.00 209.76 Do. Nov. 4 198,528 1,251.00 165.44 Do. .do 62,362 748.00 51.97 Dritario Nov. 5 88,150 580.00 73.46 Quebec .do 71,716 789.00 59.76 Do .do 38,170 215.00 31.81 Do .do 35,858 412.00 29.88		39. 82			do	Do
D0	·····	29. 37		35, 240	ao	
Do. do. 62,362 748,00 51,97	31. 4 24. 8	209. 70 165. 44	1,000.00		Nov. 4	Do
Dritario Nov. 5 88,150 530,00 73,46 Quebec do 71,716 789,00 59,76 Do do 38,170 215.00 31,81 Do do 35,858 412.00 29,88	2.3		748.00		ا مام ا	100
Do		73. 46	530.00	88, 150		
Do	2. 0	<i>5</i> 9. 76			do	Do.
Do	4.7				go	Do
	1.3	29.88 29.37	458.00	35, 240	do	Do
		58. 75	452, 00	64, 500	Nov. 8 I	
Quasies	17.4	116.56	887.00	139, 871	Nov. 9	Quebec
Do	22.0		1, 112.00	176, 455	NOV. 12	Do

PORT OF DETROIT, MICH.—Continued.

Imports received from January 1, 1907, to June 1, 1908—Continued.

MECHANICALLY GROUND WOOD PULP-Continued.

Whence arrived.	Date of arrival.	Quantity.	Value.	Specific duty.	Counter- vailing duty.
	1907.	Pounds.			
Quebec	Nov. 14	34, 620 145, 517	\$409.00 917.00	\$28. 85 121. 26	£18. 19
Do	Nov. 15	123, 993	787.00	103. 33	15.50
Ontario	Nov. 16	32, 250	226,00	26, 88	
Do	Nov. 18	146, 630	855. 00 412. 00	122.19	
Quebec	do Nov. 19	35, 858 59, 243	662.00	29. 88 49. 37	1.35 2.22
Do	do Nov. 20	1 71,712 1	861.00	59.76	2.69
Do Do	Nov. 20	165, 830	1,045.00	138. 19	20.73
Do	Nov. 21 Nov. 22	116, 330 31, 181	923. 00 359. 00	96. 94 25. 98	14.54 1.17
Do	Nov. 25	30,912	355.00	25. 76	1.16
Do	do	61, 286	674.00	51.07	2.30
Do	do Nov. 29	86, 430	519.00 595.00	73. 03 78. 65	11.80
Do	do	94,380 71,716	789.00	59. 76	2.09
Do	do	123, 150	776.00	102.63	15. 39
<u>p</u> o	do Dec. 2	64, 350	708.00	53. 63	2.41
Do	Dec. 2	30, 643 65, 480	352.00 753.00	25. 54 54. 57	1.15
Do	Dec. 3	65, 480	720.00	54. 57	2.46
Do	do	85, 920	424.00	29. 93	
Do	do	71,820	849.00	<i>5</i> 9. 85	
Do	do Dec. 4	59,860	707.00 412.00	49. 80 29. 88	1.25
Do	do	35, 858 71, 716	789.00	59. 76	2.09
Do	Dec. 6	65, 480	753.00	54. 57	2.46
Ontario	Dec. 7	32, 250	194.00	26. 88	
Ontario. Quebec. Do	Dec. 10 Dec. 11	57,960 216,720	685.00 2,994.00	48. 30 180. 60	· • • • • • • • • • • • • • • • • • • •
Do	ldo	94,569	606.00	78, 81	11.82
Do	Dec. 12	94,569 217,170	1,368.00	180. 98	27.15
OntarioQuebec	Dec. 12 Dec. 16	1 25,800	181.00	21. 50	19. 37
Do	do	154,991 35,858	976.00 412.00	129. 16 29. 88	1.35
Do	Dec. 17	1 41.800 1	263.00	34, 83	8, 23
Do	do	31,288	360.00	26.07	1.17
Do	Dec. 18	57,270 95,004	401.00 428.00	47. 72 79. 17	7. 16
Do	Dec. 20	88,700	271.00	32. 25	
Qnebec	Dec. 21	38,700 155,772	1,012.00	129. 81	19. 47
Do	Dec. 23	35,549	409.00 803.00	29. 62 106. 24	1. 33 15. 93
Do Do		127, 482 82, 500	244.00	27.08	4.06
Do	Dec. 27	56,830	358.00	47. 36	4.06 7.10
Do	Dec. 30	123,390	777.00	102. 88	IL C
Do	Dec. 31	84,000 61,960	992.00 390.00	70.00 \$1.63	7.75
Do Do.	do	111,945	706.00	92. 30	12.90
	1908.	1 1			}
Do	Jan. 4	77,400	465.00	64. 50	
Do Do.	do Jan. 9	i 102 qan i	649.00 355.00	85. 78	12.85 1.16
Do		30,912 87,170 58,780	489.00	25. 76 30. 98	L 10
Do	Jan. 14	58,780	893.00	48. 98	7. 35
Do	Jan. 13	1 83,750	877.00	44. 70	
Do Do	Jan. 15 Jan. 22	92,310	581.00	76. 93 118. 50	11.54
Do	do	142, 199 101, 820	704.00 641.00	84, 85	17.78 12.75
Do	Ian 25	178, 617	1,138.00	148, 83	22.33
Do. Do. Ontario. Quebec.	Jan. 27 Jan. 30	30,100	211.00	25.06	
Ontario	Jan. 30 Feb. 1	71,820 33,325	849.00 200.00 409.00	59. 85 27. 77	
Quebec.	do	35,549	409.00	29. 63	LS
		162,850	1.026.00	135.71	20. 36
Ontario	Feb. 11	58,050 85,549	407.00 409.00	68. 37 29. 63	1.33
Do	Feb. 17	85,858	412.00		1 12
Do	Feb. 18	85.549	409.00	20, 62	1.34 1.33
Do	do	88, 490	558.00	73.73	ļ
Do Do	do Feb. 19	35, 280 24, 308	417.00 288.00	39. 40 20. 31	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1 - 00. LV	,	200.00		,
Do Do.	do	87, 170	439.00 358.00	30.96 21.30	

# Emports received from January 1, 1907, to June 1, 1908—Continued. MECHANICALLY GROUND WOOD PULP—Continued.

1908. Feb. 19 do Feb. 24 do do Feb. 25 Feb. 27 do	Pounds. 20,020 33,244 58,050 30,540 76,800 74,970 108,790 87,170	\$152.00 405.00 407.00 432.00 908.00 886.00 652.00 439.00	\$16. 68 27. 70 48. 38 30. 45 64. 05 62. 48 90. 66	<b>\$2.</b> <i>1.</i> 3
do Feb. 24 do do Feb. 25 Feb. 27	58,050 36,540 76,800 74,970 108,790 87,170	405.00 407.00 432.00 908.00 886.00 652.00	27. 70 48. 38 30. 45 64. 05 62. 48	\$2. ( 1. (
do do Feb. 25 Feb. 27	58,050 36,540 76,800 74,970 108,790 87,170	407.00 432.00 908.00 886.00 652.00	48. 38 30. 45 64. 05 62. 48	1.1
do do Feb. 25 Feb. 27	36,540 76,860 74,970 108,790 87,170	432.00 908.00 886.00 652.00	30. 45 64. 05 62. 48	
Feb. 25 Feb. 27	76,800 74,970 108,790 87,170	908.00 886.00 652.00	64. 05 62. 48	
Feb. 25 Feb. 27	74,970 108,790 87,170	886, 00 652, 00	62. 48	
Feb. 27	108,790 87,170	652.00		
Feb. 27	87, 170	420.00		
do	1 20, 100		30.98	
Bak an	38, 420	500.00	32. 02	
Feb. 28	85,549	409.00	29. 62	1.3
Mar. 2	57,600	346.00	48.00	
Mar. 3	83,540	201.00		
do	70,479	811.00	58. 73	2.
do	35,240		29. 37	L
ao	28,800			
Mar. 5	48,000		40.00	
Mar. 10	95 554		28. 29	i.
Mar 13	25 858	412.00	29. 02	l i
Mar. 17	85,140		70.03	4.6
Mar. 23	95.030	570.00		
do	61, 336	487.00	51, 11	
Mar. 25	35, 547	409.00	29. 62	1.
Mar. 27	57,600	846.00	48.00	l
Mar. 30	l 34.400	241.00	28. 67	
do	35, 239	405.00	29. 37	1.
	38,000			
Apr. 2			67. 77	
Apr. 3			20.78	4
Apr. •		400.00		i.
	75 690	454 00		
Apr. 13	26 308			
Apr. 14				
Apr. 15				
do	36, 540	290.00	30, 45	
Apr. 17	45, 774	854.00	88. 15	
Anr 12	71,010	447.00	<b>59.</b> 17	
Apr. 21	24,796	195.00		
Apr. 23				
Apr. 24	89,720	478.00		
Apr. 2/	101,080	W/0.00	184. 73	i.
	80,000			L
May 1	97 900	205.00	91 80	
May 4	22, 982		10 15	
do	35, 859			ii.
May 11	64, 500	452.00	BR. 78	l
May 12	119, 540	717.00	99. 62	
do	35,858	823.00	29, 88	1.
May 15	270,000	842.00	225.00	83.
May 20	60, 959	384.00	<i>5</i> 0. 80	
May 21	57,620			
мау 25	27, 276		22. 73	
uo			22. 65	••••••
Jdo	107 020			3.
de	79 104	580.00		••••••
May 26	37, 625			
			105. 94	
May 27	127, 130	800.00	100. 23	
	do	do 70, 479do 35, 249do 35, 249do 35, 288, 800 Mar. 8 48,000 Mar. 6 27, 980 Mar. 13 35, 858 Mar. 17 85, 140 Mar. 23 95, 030do 61, 336 Mar. 25 35, 547 Mar. 27 57, 600 Mar. 30 34, 400do 35, 239 Apr. 1 88,000 Apr. 2 81, 320 Apr. 3 22, 130 Apr. 3 7, 600 Apr. 13 26, 396 Apr. 14 34, 400 Apr. 15 36, 540 Apr. 15 36, 540 Apr. 21 44, 796 Apr. 22 46, 720 Apr. 23 40, 320 Apr. 24 69, 720 Apr. 27 161, 680do 35, 858do 35, 858do 35, 858 May 11 97, 800 May 4 22, 982do 35, 858 May 11 64, 800 May 1 19, 540 May 12 19, 540do 38, 888 May 11 64, 800 May 20 60, 953 May 21 77, 800 May 20 60, 953 May 21 77, 176do 38, 888 May 11 77, 800 May 20 60, 953 May 21 77, 720 May 25 77, 730do 38, 888 May 21 77, 176do 38, 889 May 21 77, 720 May 25 77, 730do 72, 106 May 26 77, 108	do 70, 479 811.00  do 35, 240 406.00  do 28, 800 173.00   Mar. 8 48,000 288.00   Mar. 6 27, 950 196.00   Mar. 13 25, 554 409.00   Mar. 13 25, 558 412.00   Mar. 17 85, 140 510.00  do 61, 336 487.00   Mar. 23 95, 630 570.00  do 61, 336 487.00   Mar. 25 35, 547 409.00   Mar. 26 35, 549 409.00   Apr. 1 38,000 385.00  do 35, 239 406.00   Apr. 1 38,000 385.00  do 35, 239 406.00  do 35, 239 406.00  do 35, 549 409.00  do 38, 540 290.00  do 38, 588 412.00  do 38, 888 323.00  do 388, 999 30, 300  do 38, 888 323.00  do 38, 888 3	do 70, 479do 35, 240do 28, 800do 35, 554do 35, 554do 35, 554do 61, 335do 61, 336do 61, 336do 61, 336do 61, 336do 35, 594do 35, 594do 35, 594do 35, 597do 38, 600do 35, 239do 36, 600do 35, 239do 36, 600do 35, 239do 36, 600do 35, 239do 38, 600do 35, 599do 400do 35, 549do 400do 36, 540do 37, 540do 38, 585do 38, 585do 38, 585do 38, 58

## Imports received from January 1, 1907, to June 1, 1908—Continued.

#### CHEMICALLY UNBLEACHED WOOD PULP-Continued.

Whence arrived.	Date of arrival.	Quantity.	Value.	Specific duty.	Counter- valling duty.
	_ 1907	Pounds.			i
New Brunswick	Jan. 7	87,758 22,332	\$566.00	<b>862. 93</b>	ļ
Ontario	Jan. 8	18,030	284.00 266.00	37. 22 30. 05	\$3.2
Queloc	Jan. 10	24, 127	415.00	40. 21	
Quebec	Jan. 12	18, 033 18, 056	266.00	20.05	8.2
1)0	do	18,056	266.00	80.09	3.2
Do	do Jan. 14	18,067	266.00	30.11	8.2
Ontario	do	24, 446 24, 147	420.00 447.00	40. 74 40. 25	
Do	do	24,089	441.00	40. 15	
New Brunswick	Jan. 17	36, 302	545.00	60. 50	
Ontario	Jan. 18	26, 320	450.00	43. 87	
Do Do	Jan. 25	48, 360 24, 095	832.00 441.00	80. 60 40. 16	
Quebec	Jan. 28	39, 338	724.00	65. 56	4.8
Ontario.	Jan. 31	24,076	414.00	40. 18	l
Quebec	Feb. 4	22, 587	333.00	37.65	4.0
Ontario	do	47,840	875.00	79. 73	<b> </b>
		44, 568 22, 554	767.00 333.00	74. 28 37, 59	4.0
Do.	Feb. 12	18,042	266.00	30.07	1 3.2
Ontario.	Feb. 13	48, 490	834.00	80. 82	
Quebec	do	18,087	267.00	30. 15	8.2
Quebec. Do . Ontario. Quebec. New Brunswick.	do	45, 449	682.00	75.75	
JDIATIO	L PRD. IA	46, 250 80, 231	796.00 1,291.00	77.08 183.72	9.5
New Remewick	do. 19	38, 366	575,00	63. 94	8.0
Do	do Feb. 19	22, 152	410.00	36, 92	
Do	Feb. 21	24, 128	495.00	40, 21	
Do	do	48, 256	830.00	80.43	
Do	Feb. 25	38,850	624.00	64.75	4.7
Do Do New Brunswick Dontario. Quebeo.	Feb. 26 Mar. 21	53, 187 48, 399	798.00 832.00	88. 65 80. 67	
Dijehen	Mar. 4	18,081	267.00	80.14	3.2
DU	Mar. 9	27,056	399.00	45.09	4.8
Ontario	do	48,893	841.00	81.49	
Quebec	Mar. 11	27,087	400.00	45. 15	4.8
Öntario Do	do Mar. 18	23,900 24,219	411.00 417.00	39. 83 40. 37	
Do	Mar. 19	24, 115	441.00	40. 19	
Do Do	Mar. 22	24,089	414.00	40, 15	
Do	Mar. 25	24,024	440.00	40.04	
Quebec	do Mar. 27	18,074	267.00	30. 12 42. 13	3.2
Do	Mar. 27 Apr. 2	25, 280 53, 795	399.00 984.00	89.66	•••••
Quebec	do	18,031	266.00	30.05	3.2
Ontario	Apr. 5	48,399	886.00	80. 67	
Do	ADT. 8	22,272	408.00	37. 12	
Do	Apr. 9 Apr. 25	48,386 44,352	832.00	80. 64 73. 92	•••••
Do	do	47,580	812.00 818.00	79. 30	
Do	Apr. 27	I 47.91R I	824.00	79.86	
Do	Apr. 29	22,887	338,00	28, 15	4.0
Do	May 2	48, 204	829.00	80. 34	
Do Juebeo Ditario Quebeo	May 4 May 7	47,840 15,255	875.00 225.00	79. 73 25. 43	2.7
Interio	May 11	48, 438	886.00	80. 73	
Quebeo	May 14	38,808	771.00	64. 68	4.7
)ntario	May 16	24, 232	443.00	40. 39	
Do	May 17	47,100	862.00	78. 50	
Do Do.	May 20 May 24	46,850 24,375	806.00 446.00	78. 08 40. 63	
Do	May 27	46,700	803.00	77.83	
DoQuebeo	May 31	I 49.79∩ I	736.00	71.30	
Quebec	June 4	15, 220	224.00	25.37	2.7
	do	70,490	1,431.00	117. 48	
DO	do June 18	78,827 54,950	1,351.00 1,006.00	123.05 91.58	
Do	June 19	53,429	1,059.00	89.05	
Do D	June 24	51.250	882.00	85. 42	
100	June 25	50,662	952.00	84.44	
Do	July 5	49,796	1,036.00	82, 99	1
Do	July 11	82,750	907.00	87. 92	

# Imports received from January 1, 1907, to June 1, 1908—Continued. CHEMICALLY UNBLEACHED WOOD PULP—Continued.

Whence arrived.	Date of arrival.	Quantity.	Value.	Specific duty.	Counter vailing duty.
	1907.	Pounds.			·
Ontario	July 16	55,890	\$1,163.00	\$93. 15	
Do	July 18	53,500	926.00	89. 17	
DoQuebec.	July 23	52,875	1,100.00	88. 13	
Ontario	July 24	27,002 24,696	379.00 494.00	45.00 41.16	\$4.63
Do.		25, 184	429.00	41.97	
Do	do	31,470	645.00	52.45	
_ Do		51,700	889.00	86. 17	
Quebec	Aug. 7	14,851	214.00	24.75	2.65
Ontario	Aug. 9	54,990	1,127.00	91.65	
Do	Aug. 13	55, 198 35, 207	949.00 662.00	- 92.00 58.68	
Quebec	Aug. 17	18,024	266.00	30.04	3.23
Ontario	Aug. 20	25, 170	473.00	41.95	
Do	do	49,536	852:00	82.56	
<u>D</u> o	Aug. 27	53, 250	1,001.00	88.75	
Do Do	Sept. 4 Sept. 7	55, 120	1,130.00	91.87	
Do	Sept. 9	53,486 58,744	926.00 1,204.00	89. 15 97. 90	
Do	Sept. 10	54, 431	936.00	90.72	
Do	Sept. 11	21.375	541.00	43.98	
Do	Sept. 13	53, 690	923.00	89, 48	
Do	Sept. 16	53,805	1, 103.00	89.67	
Do	Sept. 18	52, 625	905.00	87. 71	
Do Do.	Sept. 19	53, 200	1,000.00	88 67	
Do	do Sept. 24	56, 160 59, 976	1,151.00	93.60 99.96	
Do	do	50,688	872.00	84. 48	
Do	Oct. 1	54,990	1,034.00	91.65	
Do	Oct. 3	55, 589	1,028.00	92. 65	
Do	Oct. 15	53.397	988.00	89.00	
Do	do	54,340	1,005.00	90. 57	
DoQuehec	Oct. 18 Oct. 22	51,050 18,099	944.00 267.00	85.08 30.17	
Ontario	Oct. 23	53,040	1,103.00	88. 40	8. 23
Do	Oct. 28	50.960	1,045.00	84. 93	
Do	do	49,852	1,037.00	83. 09	
Quebec	Oct. 29	18,027	266.00	<b>8</b> 0. 05	8. 22
Do	Nov. 1	18,057	266.00	30.09	8. 23
Ontario	Nov. 4 Nov. 6	51,570	1,057.00	85. 95	
Do	Nov. 9	51,025 52,332	1,061.00 1,089.00	85. 04 87. 22	
Quebec	Nov. 12	18,000	266.00	30.00	8.21
Ontario	Nov. 14	50,570	1.037.00	84. 28	
Quebec	Nov. 21	18,000	266.00	30.00	3. 22
Öntario	Nov. 23	21,520	544.00	44. 20	
Quabec.	Dec. 4 Dec. 10	24,713	457.00	41. 19	
Do	do	86,000 45,141	451.00 666.00	60.00 75.24	6. 43 8. 06
Do	Dec. 18	18,000	226.00	30.00	3.21
Ontario	Dec. 27	48,230	989.00	80.38	
Quebec	do	45,600	673.00	71.00	8.14
Do Do	Dec. 30	48, 230	1,003.00	80. 38	
D0	Dec. 31	<b>3</b> 8,000	561.00	13. 33	6.78
	1908.				
Do	Jan. 9	22,800	336.00	88.00	4.07
Do Do	Jan. 13	14, 923	320.00	24.87	2, 68
Do	Jan. 16	72,540	1,415.00	120.90	
Do	Jan. 18 Jan. 19	48, 334	943.00	80.56	
Ontario	Feb. 1	31,518 41,930	583.00 818.00	52. 53 78 23	
Do	Feb. 5	23, 543	459.00	39 24	
Do	Feb. 28	47,944	935.00	79. 91	
Do	Mar. 9	46,000	897.00	76.67	
Do	Mar. 14	46,904	915.00	78. 17	
Do Do	Mar. 16	24, 141	464.00	40.23	
Do	Mar. 18	47,788	932.00	79. 15	
Do	Mar. 31 May 5	24,070 50,678	462.00 962.00	40. 12 84. 46	
Do	May 25	23, 465	435.00	39.11	
	<u> </u>	8,765,833	103, 476.00	9,609.79	181. 47

## Imports received from January 1, 1907, to June 1, 1908—Continued.

## NEWS-PRINT PAPER.

					<del></del>
Whence arrived.	Date of arrival.	Quantity.	Value.	Specific duty.	Co nterving d ty.
	1907.	Pounds.			
Ontario	Jan. 9	32,013	\$560.00	<b>89</b> 6, 04	
Quebec	Jan. 16	32,013 32,380	567.00	97.14	
Do	Apr. 27	150,800	2,743.00	452. 40	\$16.59
Do	Apr. 29	239, 400 34, 000	4, 369, 00 622, 00	718. 20 102. 00	26.33 3.74
Do	May 2	243, 400	4, 427.00	730. 20	3.14
Do	May 4	40.000	730.00	120.00	4.40
Do	May 7	131,400	2,398.00	394.20	14.45
Do	do May 14	77, 200 30, 400	1,419.00 500.00	231.60 91.20	8. 49 3. 34
Do	May 21	43,900	801.00	131. 70	4.83
Do	May 27	29, 200	533.00	87. 60	3. 21
Do	do	126,000	2,363.00	378.00	13.86
Do	May 29 May 31	38, 048 153, 400	666.00 2,876.00	114. 14 #0. 20	16. 87
Do	June 4	36,745	643.00	110. 23	9.19
Do	June 6	87,075	649.00	111. 22	9. 28
Do	do June 8	31,618	553.00	94. 85	7. 91
Do	June 8	50.952	892.00	152.86	12.74
Do Do	June 10 June 15	48, 400 88, 900	833.00 1,673.00	145. 20 266. 70	5.32 9.78
Do	June 18	35, 220	616.00	105.66	8. 81
Do	June 20	31,715	881.00	146. 86	9. 18
Do	do	39, 555	692.00	118.66	9.80
Do Do	July 9 July 23	32,345	613.00 611.00	96. 98 111. 00	3. 56
Do	Aug. 10	32, 345 37, 000 182, 300	3,464.00	546. 90	39. 19
Do	Aug. 16	283, 900	5, 394. 00	851. 70	61.04
Do	Aug. 21	45, 700	808.00	137. 10	9. 83
<u>D</u> o	Aug. 24	211,000 37,700	4,007.00	633.00	45.37
Do Do	Aug. 26 Sept. 12	42,000	716,00 798,00	113. 10 126. 00	8. 11 9. 31
Do	Sept. 14	180, 100	8, 479. 00	549.30	40.60
Do	do	39, 334	749.00	118.00	8.72
Do	Sept. 16	45,300	861.00	135. 90	10.05
Do	Sept. 20	174,600 85,600	3, 317. 00 1, 626. 00	523. 80 256, 80	38.72
Do	do	43, 200	821.00	129.60	18. 98 9. 58
Do	do	43, 100	819.00	129. 30	9.56
Do	Sept. 27	310.200	5, 894. 00	930. U	68. 79
Do	Sept. 30 Oct. 21	28, 900 118, 600	739.00 2,099.00	116. 70 <b>355</b> . 80	8. 36 25. 56
Do	Oct. 22	30,700	583.00	92. 10	7.69
Do	ldo	35, 295	625.00	105. 89	7. 52
Do	Oct. 28	84, 500 45, 361	1,510.00	253. G8	21. 14
Do	do	45, 361	862.00	136. (8	9.66
Do	l do	44, 200 38, 500	840.00 757.00	132. (0 115 50	9. 41 8. 25
Do	do	46, 577	885.00	139. 73	9. 92
Do	do	123,800	2, 352.00	371. 40	21. 37
Do	do	134,000	2,546.00	402.00	28. 54
Do Do	do	46, 800 43, 200	889.00 764.00	140. 40 129. 60	9. 92 10. 05
Do	Dec. 5	88, 416	1,680.00	265, 25	20.00
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
<b>5</b> .	1908.	AS NO.	B=0.00	100 10	
Do	Jan. 2 Jan. 14	40,700 41,559	778.00 790.00	122. 10 124. 68	8. 67
The contract of the contract o	Fah 1	34.800	846.00	104. 40	7. 13
Ontario	do	39, 254	746,00	117. 76	
Do	do	37,909	715 00	113. 72	
Do	do	85, 359 38, 400	1,622.00 933.00	256. 07 115. 20	7.87
Ontario.  Do. Do. Quehe: Ontario.	Feb. 11	48, 049	920 00	115. 20	
Quebec	do	43,000	842.00	129.00	8.82
Quebec. Do.	Feb. 21	39,500	776.00	118.50	8.10
DoOntario	Feb. 24	<i>5</i> 3, 100	1,030.00	159. 30	10.89
OntarioQuebec	Feb. 26	51,700 52,300	982.00 1,011.00	155. 10 156. 90	10. 72
I)o	do	34,900	674.00	104, 70	7. 15
Do	do	37, 400 38, 700	680.00	112. 20	7. 15 7. 67
Do	Mar. 4	38,700	735.00	116.10	7.93
Do	Mar. 7 Mar. 10	45, 500 45, 284	879 (10) 860 (10)	136. 50 135. 85	9.33
Do		47,700	906.00	143.10	
A-V	- 20.000 - 24	. 41,100			

## Imports received from January 1, 1907, to June 1, 1908—Continued.

#### NEWS-PRINT PAPER-Continued.

Quebec         Mar. 1           Do	40,300 42,000 43,338 52,212 41,578 43,120	\$917.00 706.00 798.00 823.00 1,009.00 790.00 833.00	\$142, 32 120, 90 120, 00 130, 01 156, 64 124, 73	\$9. 72 8. 26 8. 61 10. 70 8. 53
Ontario         Apr. 1           Do        do           Quebec         Apr. 1           Do        do           Ontario         Apr. 1           Do         May           Quebec         May 1           Do         May 1           O         May 1           Ontario        do           Do         May 2           May 2        do	46, 853 54, 21, 1019 37, 599 39, 431 59, 402 40, 500 43, 405 47, 135 37, 100 41, 600 44, 805 42, 805	770.00 905.00 1,0.8.00 779.00 720.00 739.00 1,129.00 839.00 735.00 896.00 716.00 896.00 808.00 1,163.00	129. 36 121. 61 140. 57 162. 70 123. 06 112. 80 118. 29 178. 21 18. 29 130. 22 115. 99 141. 41 111. 30 124. 80 134. 70 128. 42 180. 60	8. 86 9. 61 11. 12 7. 71 8. 26 8. 90 7. 60 8. 53 9. 20 12. 34

#### PULP WOOD-FREE.

Country.	Date of arrival.	Quan- tity.	Value.	Country.	Date of arrival.	Quan- tity.	Value.
Ontario	1907. May 9	Cords.	\$90	Ontario	1907. Aug. 10	Cords.	84, 55
Do		10	45	Do		136	67
Do	do	10	35	Do	rido -	208	1.24
Do		iŏ	35	Quebec		695	5, 21
Do		10	45	Do		700	4.50
Do	do	10	45	Do	do	450	2, 92
Do	do	10	45	Do	Oct. 3	700	4,55
Do	do	10	45	Ontario		40	2,92
Do	do	10	45	Do		618	4,65
Do		10	30	Do	Oct. 24	87	43
Do	May 17	10	45	Do		850	5, 52
<u>D</u> o	July 8	10	60	Do	Nov. 13	450	2,92
<u>D</u> o	do	10	60	Do		700	4,50
Do		700	4,550	Do		700	4,93
<u>Do</u>		450	2,925	Do	ao	544	3,77
Do	July 30	376	3,384	m-4-1		10 110	
Do	Aug. 10	500	3, 250	Total		10, 110	68, 15

#### PORT OF DAYTON, OHIO.

Statement showing date of arrival, quantity, value, and duty of wood pulp received at the port of Dayton, Ohio, from Sweden, from January 1, 1907, to June 1, 1908.

Date.	Value.	Quantity.	Duty.	
1907.		Pounds.		
January 31	\$801.00	56, 353	\$93. 92	
January 21	4, 177. 00	281, 184		
Do		183,670	306. 12	
Do	4,717.00	343, 430		
February 25	4, 177. 00	293, 676		
May 27	6, 428.00	450, 400		
June 28	17, 682.00	1,243,730	2,072.88	
July 3	27, 326.00	1,901,741	8, 169, 57	
August 10	19,709.00	1,373,323	2, 288, 87	
November 4	9, 382.00	653,763	1,089.61	
December 5	8,920.00	626,773	1,044.62	\$37.74
December 16		118, 230	197.05	7. 19
December 11	4, 338.00	308, 880	514.80	18.38
1908.	i			i
January 6	8, 678. 00	608,040	1,013.40	36.76
January 20	4, 885. 00	842, 207	7,670.35	20.70
Total	125, 353. 00	8, 795, 400	14, 659. 01	120.77

Under paragraphs 395, 396, and 399, no transactions.

#### PORT OF ERIE, PA.

Tabulated statement of wood pulp (par. 393) and of pulp wood (par. 699) imported into the district of Erie, Pa., from January 1, 1907, to June 1, 1908.

24.4	Wood pu	ılp, chemic (par. 3	cal, unbleached 93).	Pulp wood (par. 699).			
Date imported.	Quantity.	Value.	Country of origin.	Quantity.	Value.	Country of origin.	
1907.	Pounds.			Cords.			
May 16				600	\$3,000	Quebec, Ontario, etc.	
June 1				508	2,540	Do.	
June 6				545	2,725	Do.	
June 12				610	3,050	Do.	
June 24				215	1,075	Do.	
une 25					2,710	Do.	
Do				603	3.015	Do.	
July 5					2,755	Do.	
uly 13					1,155	Do.	
July 15			l	535	2,675	Do.	
July 20					2,890	Do.	
July 30				472	3.255	Do.	
August 5					1,622	Do.	
August 6	1		i	556	2,782	Do.	
August 13				594	2,970	Do.	
August 20					2,610	Do.	
Mugust 20			***************************************	462	3, 187	Do.	
August 21			••••••				
August 28			• • • • • • • • • • • • • • • • • • • •	<b>52</b> 0	2,860	Do.	
September 3		••••		599	2,995	Do.	
September 6			• • • • • • • • • • • • • • • • • • • •	650	4,550	Do.	
september 7				598	8,284	Do.	
September 7 September 16 September 20				469	3,232	Do.	
September 20				445	3,548	Do	
Do				510	2,805	Do.	
_ Do				417	2,890	Do.	
September 23				600	3,300	Do.	
					2,625	Do.	
October 9				554	2,775	Do.	
October 15				567	3.437	Do.	
October 18				560	2,800	Do.	
October 21				550	3.866	Do.	
October 24				250	1.250	Do.	
October 28				602	3.311	Do.	
November 1				530	2,915	Do.	
November 9	60 778	<b>\$</b> 1 171	Germanya	•••	2,510	24	
November 9 November 13	55,.10	<b>V</b> 1,1/1		405	2.766	Do.	
November 18				1.080	6,480	Do.	
November 19					506	Do.	
					3.392	Do.	
November 25				411	2,877		
1014 dttt 061 20				211	2,8//	Do.	
Total	60,776	1,171		20,768	112,480		

Duty collected, \$101.88.
 There were no transactions of filter masse (par. 395) and printing paper (par. 396).

#### PORT OF NIAGARA FALLS.

Statement of wood pulp, filter masse, printing paper, and pulp woods imported from Canada at the port of Niagara Falls, N. Y., from January 1, 1907, to June 1, 1908.

#### MECHANICALLY GROUND WOOD PULP.

Date o	Quantit	v. Value.	Duty.	Addi- tional duty.	Date		Quantity.	Value.	Duty.	Addi- tional duty.
1907.	Pounds				190	7.	Pounds.			
Jan.	1   19.3	0 897.00	\$16.13		Aug.	28	86,000	\$603.00	\$71.66	
	7   00,0	SO   4031.00	55. 55 27. 63		Sept.	30	86, 834 86, 430	851.00 819.00	72.36 72.02	
1	0 45, 1 1 19, 3	so. I 97∶00	16.13		Dept.	4	51, 620	309.00	43.01	
1	2 56,7	341.00	16. 13 47. 30		l	5	51,620 25,800	155, 00	21.50	
1	41 19.3	50 I 97.00	16. 13		H	9	119,892	719.00	99. 91	
2	2 25,8 4 102,7	00 129.00 0 591.00	21. 50 85. 64		li .	10 11	25, 800 26, 875	155. 00 161. 00	21. 50 22. 40	
- 5	8 101, 4 4 53, 7	611.00	84. 57 44. 79		8	12	25, 800	181.00	21.50	
Feb.	4 53,7	0 295.00	44.79		11	13	27, 144	163.00	22. 62	
	5 27,9 1 54,1	50 140.00 80 825.00	23. 30 45. 15	••••••	ll .	14 16	81,700 132,213	490.00 893.00	68.08 110.20	
1	2 34.4	206.00	28. 67		1	18	26, 144	157.00	21.79	
1	5 34.4	00 172.00	28. 67		1	19	1 24 221	205.00	28. 52	
	8 55,9 1 18,7	00 836.00 05 94.00	46. 59 15. 59 48. 73	·····	H	21 23 28 30 3	46, 538 28, 235 83, 951	289.00 169.00	38. 79 23. 53 28. 29	
2	1 18,7 5 58,4	351.00	48.73		ii .	28	83,951	214.00	28.29	
Mar.	5 58, 4 6 75, 2	50 451.00	62, 71	,	1	30	144,726	868.00	120.61	
	9   24,5	0 123.00	20. 43 47. 30		Oct.	3	56,812	341.00	47. 34	
		50 340.00 70 494.00	68. 56		ll .	5 11	51,600 30,000	810.00 135.00	43. 00 25. 00	
Apr.	1 25.8	00 154.00	21.50		ji	18	E4 500	452.00	53.74	
- 1	8 28,3	90 170.00	23. 65 21. 50 27. 09		N	18 21 22 25 28	34, 400 53, 220 51, 600 30, 100	206.00	28, 67	
May	3 25,8 2 32,5	00 155.00 00 146.00	21.50		1	22	53, 220	274.00 336.00	44. 35 43. 00	
<b>Esy</b>	3 30,0	00 146.00 00 135.00	25.00		1	28	30, 100	211.00	95 00	
	61 82.5	80 I 495.00	68.80		Nov.	- 11	1 70.100	315.00	58. 33	
	8 30,1 3 30,0	00 181.00			H	16 19	28, 380 25, 800	170.00	23. 65 21. 50	
1	4 77.4	00 135.00 00 465.00	64, 50		1	25	25, 800 25, 800	155. 00 155. 00	21.50	
	5 23,5 8 84,8	90 141.00	10 65		1	25 29	25, 800 107, 500	155.00	21.50	
j	8 34,8	23 210.00	29.02		Dec.	3	107,500	537.00 241.00	21.50 89.58 28.67	
	1 86, 4 3 33, 2	80 819.00 12 195.00	72.03		9	4	34, 400 27, 950	168.00	23.07	
•	3 80,0 4 77,4 5 23,5 8 34,8 1 86,4 3 33,2 5 80,3 9 30,3	170.00	29. 02 72. 03 27. 68 25. 30 25. 30 19. 71		l	7	25, 800	155, 00	23. 29 21. 50 23. 29 19. 71	
	9 30,3	80   170.00	25. 30		l	9	27,950	• 196.00	23. 29	
June	1 23,6 8 54,1	50 142.00 57 325.00	19. 71 45. 13		H	12 16	23,650 30,100	142.00 211.00	25. 01	
	5 31.1	75 187.00	25.98			17 18	1 20.100	181.00	25, 06	
1		80 340.00	47. 30		1	18	28, 380 53, 750	170.00 376.00	23.65	
	4 30, 1 5 31, 0	00 211.00 46 186.00	25.08 25.87		H	20 21	53,750 68,800	482.00	44.79	
- 1	5 31,0 7 25,8	00 155.00	21.50		1	26	30, 100	181.00	57. 33 25. 08	
i	8 25,8	00   155.00	21.50		11	31	57,580	287.00	47.98	\$10.28
2	2 84,3	75   506.00	70. 31		190		1			
2	4 55,2 8 54,1	56 331.00 90 325.00	46.05 45.15		Jan.	~ີ•ຸ	61,824	401.00	51.52	
3	9 25.8	00 155,00	45. 15 21. 50 19. 63		1	11	42, 141 60, 200	198.00 422.00	23. 29 50. 17	
July	8 23, 5 5 68, 8	50 141.00	19.63		1	20 27	60, 200	422.00	80.17	
	5 08,8 6 27,6	00 413.00 00 155.00	23 00		ll .	28	129, 430 47, 135	768.00 226.00	107. 87 26. 87	
	8 115, 4	28 682.00	96.19		ii .	29	77,922	580.00	64.04	
1	1 30,6	188.00	95 55			81	25, 800	181.00	21. 50	2.15
1	61,0 6 52,0 8 64,5 0 80,0	36 368.00 46 311.00	51. 09 43. 37 53. 80 25. 00		Feb.	4	83, 495 30, 100	215.00 211.00	27. 91 25. 08	2.10
5	8 64.5	382.00	53 80		ll .	15	30, 100 88, 150 27, 950	618, 00	78. 46 23. 29	
5	0 30,0	54 382.00 00 135.00	25.00		l	19	27,950	196.00	23. 29	
3	52,0	พา วาหาดา	43.89		Mar.	8	66,650	467.00 202.00	55. 54 28. 09	
9	1 30, 6 2 61, 0 8 64, 5 0 80, 0 2 52, 6 5 26, 4 9 85, 6 7 83, 0	55 331.00	46, 04		H	š	33, 708 28, 380	170.00	23, 65	
Aug.	5 66,6	50 400.00	55, 55		11	14	I 84.400	241.00 170.00	28, 66	
-	7 83,0	11   203.00	27. 51		A 75-	16	28, 380 83, 942 25, 800	203.00	23.65	
1	8 86,0	8 193.00	26, 75		Apr.	7	25, 800	203. 00 155. 00	28. 29 21. 50	
i	3 32,0 4 22,6	135.00	18, 84		ll	10	28.380	171.00	23, 65	
1	6 24,9	48   150.00	27. 90 88. 80			13 17	74, 911	449.00	62. 43 23. 65	
1	7 106, 5 9 30, 1		25.08			23	28, 380 36, 176	170.00 216.00	23. 65 30. 15	
Š	1 25,8	181.00	21.50		May	8	72,683	470.00	60. 53	
2	3 30,0 54,1	00 135.00 00 225.00	25, 00 45, 15		11		6, 528, 609	39, 657. 00	5, 433. 52	12.43
							9.04R.00	as. 001. UU		12.42

#### PORT OF NIAGARA FALLS-Continued.

Statement of wood pulp, filter masse, printing paper, and pulp woods imported from Canada at the port of Niagara Falls, N. Y., from January 1, 1907, to June 1, 1908—Continued.

#### CHEMICAL WOOD PULP. (Unbleached).

### [No bleached imported here.]

Date of arrival.	Quantity.	Value.	Duty.	Addi- tional duty.	Date of arrival.	Quantity.	Value.	Duty.	Addi- tional duty.
1907.	Pounds.				1907.	Pounds.			
ian. 5	46, 437	\$854,00	\$77.40		Aug. 31	24, 762	\$490.00	\$41.27	
10	62,719	1, 126. 00	104. 53	\$4.66	Sept. 4	125.092	2,335.00	208. 45	\$15. 4
10 11	43, 240	800.00 715.00	72.07 67.34	4. 90			1,512.00	146.51	10.8
14	40, 405 38, 701	676.00	64.50	4.76	10 12	123,922 27,040	2, 306, 00 535, 00	206, 53 45, 07	8.6
16	22,560	444.00	37.60	2.10	25	RS 614	1.062.00	92.69	
17	26, 320	505.00	43. 87		2	82,960	1,603.00	138. 26	
18	45, 960	850.00	76.60		30	54,834	1,048.00	91. 39	
19	41,402	733.00	69.00	5. 10	Oct. 2	55, 198	1,054.00	92.00	
21 24	45, 660 41, 826	845. 00 734. 00	76. 10 69. 71	5. 15	12	27,378	542.00	45.63 89.27	
28	24, 646	170.00	41.08	3. 13	16		1,023.00 507.00	42.65	
28 29	22, 320	440.00	37, 20		. 19	52,871	1.010.00	88.12	
30	46,500	860.00	77. 50		22	52,650	1,006.00	87. 75	
31	24, 115	463.00	40. 19	[	23	52, 351	1,000.00	87. 25	
Feb. 7	71, 188	1,317.00	118.65		29	52, 128	996, 00	86. 88	<b>-</b>
18 20	23,998	473.00 1,274.00	40.00 114.77		Nov. 6	51,738	988.00	86. 23	<b>-</b>
22	68, 862 48, 230	892.00	80. 38		12 15	43, 888 49, 439	842.00 944.00	73. 18 82. 40	} <b>-</b>
27	24, 128	446.00	40. 21		20	26, 150	518.00	43. 58	
28	48, 282	893.00	80, 47		21	48, 360	923. 00	80.60	
Kar. 6	40,931	757. CO	68, 22		Dec. 4		1, 116.00	97. 40	
9	39, 497	692.00	65. 83	4.87	5	24, 973	477.00	41. 62	
12	46,542	745.00	77. 57	5. 59	9		921.00	80.30	
16 18	47, 165 73, 659	754.00 1,295.00	78. 31 122. 76	5. 81 9. 18	12 28	75, 348	1,366.00	125. 58	
18	47, 465	318.00	79. 11	5. 85	31	47, 814 57, 580	913. 00 287. 00	79. 70 47. 98	10. 2
19	24, 362	451.00	40.10	0.00	91	01,000	207.00	27.90	10.2
22 25	48, 250	892.00	80.38		1908.	Į.		1	
25	24, 193	448.00	40. 32		Jan. 2	55, 740 24, 245 23, 777	1,065.00	92, 90	
27	39,070	723.00	65. 12 80. 34		3	24, 245	480.00	40. 41	
28 Avor. 9	48, 204 48, 516	891. 00 898. 00	80.34		7	23,777	454.00	39.63	
kpr. 9 16	22, 428	415.00	80. 66 37. 38		9 15		960, 00 969, 00	80, 02 80, 56	
27	46, 251	764.00	77. 09	5. 31	Feb. 5	47, 996	960.00	79.99	
27	46, 251 22, 236	434.00	27.06		10	48, 230	985.00	80.38	
29	40,500	680.00	67. 50	5.00	14	48, 256	965, 00	80.43	
Kay 3	47,840	885.00	79. 73		21	72, 302	1,412.00	120.50	
. 8	48,648	900.00	81. 08 74. 84		24	54, 180	1,056.00	90.30	
21 23	44, 904 22, 380	832.00 452.00	37.10		27 29	24, 115 47, 840	446. 00 957. 00	40. 19 79. 73	
27	72,930	1,374.00	121. 55		Mar. 3		961.00	80.08	
une 3	24, 193	49ti. 00	10.32		4		969. 00	80.77	
6	48, 789	903.00	81. 32		10	47, 918	958.00	79.86	
12	49,348	913.00	82. 25		14		952.00	79.32	
14	26, 195	511.00	43. 66		18	47, 684	053.00	79.48	8.0
21	50, 167 46, 180	928.00 811.00	83. 62 76. 97	·····	23 25	40, 987	754.00 1,396.00	68.31 119.34	7.0
27 27	50, 315	930.00	76. 97 83. 86	5. 69	26		234.00	38.91	
28	26,098	814.00	43. 50		Apr. 20	70,980	1, 356. 00	118.30	
inly 6	49, 920	924.00	83. 20		25	46, 800	781.00	78.00	8.7
22	53,040 51,500	981.00	88. 40		29	71, 858	1,373.00	119.76	
29	51,500	953.00	85. 83		May 5	47,060	899. 00	78.34	···· <u>·</u> ··
30 Aug. 2	53,000 95,235	1,012.00	85, 33 158, 73	11,70	25		1,383.00	129. 58	9.5
lug. 2	54, 483	1,617.00 1,041.00	90. 81	11.70	2	47, 346	904. 00	78. 91	
10	27, 209	539.00	45. 35		ì	5, 279, 430	98, 137. 00	8, 731. 36	152.1
			90. 70			. 0,, 100			

#### PORT OF NIAGARA FALLS—Continued.

Statement of wood pulp, filter masse, printing paper, and pulp woods imported from Canada at the port of Niagara Falls, N. Y., from January 1, 1907, to June 1, 1908—Continued.

#### FILTER MASSE (OR FILTER STOCK).

No importations at this port under paragraph 395.

## PRINTING PAPER. [Under paragraph 396.]

Date of arrival.	Quantity.	Value.	Duty.	Rate of duty.
Faly 30	Pounds. 36, 225 30, 624 37, 765	\$670.00 689.00 699.00 2,058.00	\$108.68 122.60 113.30	Cents. 0.3 per pound4 per pound8 per pound.

The first and last items were entered at three-tenths of 1 cent per pound and the other one at four-tenths of a cent per pound.

## PULP WOODS.

#### [Under par. 699.]

			<u>-</u>					
Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
1907.	Cords.	27.10.20	1907. Mar. 26	Cords.		1907.	Cords.	
Jan. 1	. 100	\$540. 00 69. 00	27	13 96	\$78, 00 402, 00	July 26	1,235 439	\$6,175.00 2,195.00
ź	. 62	255.00	Apr. 1	16	76.00	Aug. 1	506	2, 190.00
7	.] 17	68.00	2	22	105.00	8	490	2,450.00
5	. 8	32.00	3	11	77.00	8	12	50.00
7	. 90	494.00	6	60	860.00	14	609	3.045.00
8	.] 31	149.00	8	120	720.00	15	498	2,490.00
9	. 15	69.00	11	93	449.00	23	14	75.00
10	. 81	472.00	Apr. 12	30	180. 00	27	843	4,215.00
11	. 16	64.00	15	10	60.00	29	555	2,775.00
12	. 96	<b>5</b> 10. 00	18	140	608.00	Sept. 3	773	3,865.00
14	. 68	298.00	20	20	120.00		461	2,305.00
15	. 27	134.00	25 26	20 20	120 00 120 00	11	18 434	77. 00 2. 170. 00
16 17	. 17 20	77.00 120.00	27	20	120.00	25	1,217	6,080.00
18	. 8	32.00	May 1	50	300.00	26	18	77.00
19	24	92.00	8	201	1.134.00	Oct. 8	16	64.00
21	. 18	72.00	6	20	120.00	1	24	98.00
22	. 30	131.00	8	92	453.00	1	83	139, 00
23	. 22	94.00	9	100	600, 00		1.882	9, 410, 00
25	. 15	60,00	13	10	60.00	17	27	86.00
28	. 66	281.00	16	207	1,038.00	Oot. 21	353	1,765.00
29	. 58	276.00	20	10	60.00	24	524	2, 624.00
30	. 14	56.00	23	30	180.00	26	635	3, 175. 00
Feb. 4	. 137	768.00	25	74	870.00	29	451	2, 255. 00
5	. 30	180.00	27 81	74	870.00	Nov. 4	16 30	68.00 128.00
7	. 268 52	1,446.00 208.00	June 8	50 18	300. 00 92. 00	NOV. 3	15	72.00
12	74	843. CO	June 3	156	732.00	ا…ا	16	66.00
13	18	72.00	5	90	540.00	15	22	111.00
14	. 68	281.00	10	30	180.00	16	46	182, 00
16	99	456.00	12	40	240.00	19	ii l	49.00
19	. 16	64.00	14	44	196.00	23	19	65.00
21	. 66	255.00	15	60	860, 00	25	17	• 60,00
23	. 102	<b>53</b> 6.00	18	1,062	4,248.00	30	1,743	9, 356.00
26	. 21	123.00	19	10	60.00	Dec. 4	12	66,00
27	. 15	45.00	22	10	60.00	<b>!</b> ]	51	221.00
Mar. 1	. 18	72.00	24	500	1,982.00	9	12	<b>52.00</b>
2	50 27	227.00 100.00	26 27	84 870	191.00 3.480.00	2	11	62.00 55.00
Ž	92	424.00	July 3	623	2, 492, 00	10	12	66.00
ğ	34	136.00	6	647	2,588.00	ii	747	4, 263. 00
14	162	908.00	10	10	60.00	12	48	265.09
18	63	297.00	17	514	2,056.00	16	43	221.00
19	. 10	60.00	19	95	570.00	21	18	90.00
20	. 78	872.00	22	12	60.00	80	15	78.00
25	20	120.00	25	10	60.00 l	1		

#### PORT OF NIAGARA FALLS-Continued.

Statement of wood pulp, filter masse, printing paper, and pulp woods imported from Canada at the port of Niagara Falls, N. Y., from January 1, 1907, to June 1, 1908—Continued.

#### PULP WOODS-Continued.

#### [Under par. 699.]

Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
1908.  Jan. 2 6 9 11 13 22 28 29 Peb. 3 6 11 19	34 11 45 9 14 28 12 31	\$272.00 250.00 135.00 58.00 225.00 45.00 140.00 124.00 55.00 70.00 70.00 88.00	1908. Feb. 24 Mar. 3 14 27 Apr. 4 6 6 9 13 14 15 23	36 82 35 17 10 55	\$345.00 73.00 309.00 186.00 160.00 176.00 60.00 272.00 272.00 270.00 311.00 78.00 147.00	1908. Apr. 24 27 20 May 1 5 10 12 13 15 29	56 23 10 10	\$-0.00 814.00 865.00 424.00 70.00 70.00 190.00 75.00

#### PORT OF BUFFALO.

Statement of importations under paragraphs 393, 396, and 699 of the tariff act of July 24, 1897, at the port of Buffalo, N. Y., from January 1, 1907, to June 1, 1908, showing the date of arrival, quantity, appraised value, rate of duty, country of origin, the amount of additional duties, and duties collected thereon under the provisions of paragraphs 393 and 396.

## WOOD PULP.

#### [Paragraph 393.]

	•		fr eræfrahn oso.1			
Date of arrival.	Quantity.	Value.	Rate.	Duties.	Counter- vailing duty.	From where imported.
1907.  January 3 January 5 February 21 March 3 March 30 March 31 April 27 May 22 June 2 June 2 July 3 July 8 August 24 August 25 Beptember 10 Do Do October 5 October 30 Do November 7 November 7 November 7 November 11 December 11 December 11 December 26 December 26	35, 858 40, 521 28, 380	\$464 359 705 170 464 514 135 470 1,944 138 886 861 1,594 819 875 755 755 843 893 893 893 893 894 895 895 895 895 895 895 895 895 895 895	One-twelfth of a cent.  do One-sixth of a cent. One-twelfth of a cent. One-twelfth of a cent. One-twelfth of a cent. One-sixth of a cent.	65. 87 66. 16 72. 66 142. 77 76. 80 75. 05 63. 69 70. 76 84. 93	\$1.34 7.25	Canada. Do. Do. Do. Do. Do. Do. Do. Do. Do. Do
January 1. January 3. Do. January 7. January 7. January 13. Pebruary 13. Do. Pebruary 15.	55, 900 37, 639 86, 000 47, 619 71, 858 47, 723 30, 865 71, 897 70, 707	873 571 1,316	One-twelfth of a cent. One-dixth of a cent. One-welfth of a cent. One-welfth of a cent. do do do do do		4.74 8.91	Do. Do. Do. Do. Do. Do. Do.

#### PORT OF BUFFALO-Continued.

Statement of importations under paragraphs 393, 396, and 699 of the tariff act of July 24, 1897, at the port of Buffalo, N, Y., from January 1, 1907, to June 1, 1908, etc.—Continued.

## WOOD PULP—Continued. [Paragraph 393.]

Date of arrival.	Quantity.	Value.	Rate.	Duties.	Counter- vailing duty.	From where imported.
1908. February 19 Do. February 23 February 24 February 26. February 28 May 12	Pounds. 38, 671 68, 265 70, 646 44, 220 68, 265 72, 579 74, 572	\$669 1,249 1,295 809 1,249 1,328 1,072	One-sixth of a cent dododododododododododododododododododododo	\$64. 45 113. 77 117. 91 73. 70 113. 77 120. 96 124. 30	\$4.87 9.20	Canada. Do. Do. Do. Do. Do. Do. Do. Do.
Total	2, 116, 923	33, 458		3, 111. 66	105.08	

Mechanically ground wood pulp yields one-twelfth of a cent per pound duty; chemical wood pulp, unbleached, one-sixth of a cent per pound.

No importations of filter masse or stock under paragraph 395, tariff act of 1897, during the period from January 1, 1907, to June 1, 1908.

PRINTING PAPER.
[Under paragraph 396.]

Date of arrival.	Quantity.	Value.	Rate.	Duties.	Counter- valling duties.	From where imported.
1907.	Pounds.					
January 29	54,738	\$865	Three-tenths of a cent	\$164.21		Canada.
February 6	59, 132	934	do	177, 40		Do.
February 19	36, 225	652	do	108, 68		Do.
February 25	40,765	645	do	122, 30		Do.
March 2	42,057	645	do	126. 18		Do.
Do	29, 349	508	do	88, 05		Do.
March 18	37, 299	564	do	111.90		Do.
March 25	46, 511	692	do	139.53		Do.
April 2.	42, 891	729	do	128, 67		Do.
April 9.		883	do	106, 90		Do.
April 15	46, 101	830	do	138. 33		Do.
April 19		1,460	do	243. 39		Do.
April 21	31, 134	492	do	93, 40		Do.
April 22		776	do	155, 12		Do.
Do	49,630	744	do	148.89		Do.
April 23		556	do	84. 61		Do.
April 24.	31, 178	572	do	95. 33		Do.
April 29	67, 376	1.213	do.	202, 13		Do.
May 6	42, 402	670	do	127. 21		Do.
May 7		720	do	130, 98		Do.
Do		781	do	130. 96		Do.
May 8	38, 327	705	do	114.98		Do.
May 9	35, 395	E27	do	106. 19		Do.
may y		671	do	111.90	• • • • • • • • • • •	Do.
Do	07,200	1.032	do	202. 13		Do.
May 11	69, 375		[do	101. 59		Do.
May 13		504	do			
Do	79,880	1, 198	do	239. 58		Do.
May 16		605	do	122.01		Ďσ
May 23	48, 245	718	do	144. 74		Do.
May 24		648	do	130.75		Do.
May 26	41,805	773	do	125. 42		Do.
May 28		1,531	do	248. 57		Do.
June 4	42,215	667	do	126. 67		Do.
June 11	48,927	905	do	146.78		Do.
June 25	36, 809	681	do	110. 43		Do.
July 5	41,890	775	do	125. 64		Do.
July_9	44, 852	709	do	134.56		Do.
Do	83,350	654	do	100.05		Do.
July 20	40,212	635	do	120. 64		Do.
July 28	29,950	590	do	89.85		Do.
August 18	95,969	1,056	do	287, 91	1	Da

#### PORT OF BUFFALO—Continued.

Statement of importations under paragraphs 393, 396, and 699 of the tariff act of July 24, 1897, at the port of Buffalo, N. Y., from January 1, 1907, to June 1, 1908, etc.—Continued.

#### PRINTING PAPER-Continued.

Date of arrival.	Quantity.	Value.	Rate.	Duties.	Counter- vailing duty.	From when imported.
1907.	Pounds.					
August 30	36, 805	\$681	Three-tenths of a cent.	\$110. 42		Canada.
October 9	41,791	660	do	125. 37		Do.
October 21	81, 420	1, 107	do	244.26		Do.
November 1	91, 157	1,686	do	273. 48		Do.
lovember 20	40, 403	747	do	121. 21		Do.
November 29	38,606	714	do	115.82		Do
December 2	38, 538	713	do	115.61		Do.
1908.	44 000	-				
anuary 4	41,079	781	do	123. 24		Do.
anuary 9	39,676	983	do	119.03		Do.
anuary 21	49, 584	942	do	148. 75		Do.
anuary 24	42, 100	806	do	126.30	\$8.97	Do.
anuary 29	49, 536	941	do	148.61	· · · · · · · · · · · · · · · ·	Do.
eoruary 2	38,500	737	do	115. 50	7.89	Do.
ebruary 8	89, 364	1,698	do	268.08		Do.
ebruary 15	41,559	790	do	124. US		Do.
ebruary 23	41,781	800	do		8. 57	Do.
arch 4	39,750	755	do	119. 25		Do.
larch 10	40, 111	762	do	120.34		Do.
Do	39,835	757	do	119. 51		Do.
arch 11	45, 184	858	do	135. 56		Do.
farch 12	42,517	808	do	127. 55		Do.
arch 18	37, 462	712	do	112. 39		Do.
arch 25	35, 319	676	do	105. 96	7.24	Do.
larch 30	28, 580	739	do	115. 74	7.91	Do.
Do	41,786	794	do	125. 36		Do.
pril 3	52, 411	1,004	do	157. 23	10.74	Do.
pril 13	41,059	780	do	123. 15		Do.
pril 15	36, 460	698	do	109.38	7.47	Do.
pril 20	43, 119	819	do	129.36	• • • • • • • • • • • • • • • • • • • •	Do.
pril 29	44,827	853	do	134. 48		Do.
ay 18	39,509	751	do	118.53		Do.
ay 22	36, 569	695	do	109.71		Do.
lay 26	39,896	757	do	119.60	• • • • • • • • • • • • • • • • • • • •	Do.
1907. ebruary 9	44, 200	1.910	15 per cent	296, 50		Italy.
pril 11	18, 300	1,015	do	152. 25		Do.
ay 18.	16, 100	905	do	135. 75		Do.
une 5	32, 280	1,714	do	257.10		Do.
ine 8	50, 150	2, 707	do	406, 05		Do.
eptember 13	<b>5</b> 5, 160	3,008	do	451.20		Do.
lovember 12	15, 280	814	do	122. 10		Do.
ovember 14	28,000	1,501	do	225. 15		Do.
1908.						
Lay 12	40,000	2, 180	do	827.00		Do.
Total	3,701,703	74,977	1	12, 565. 71	58, 79	

#### PORT OF BUFFALO-Continued.

Statement of importations under paragraphs 393, 396, and 699 of the tariff act of July 24, 1897, at the port of Buffalo, N. Y., from January 1, 1907, to June 1, 1908, etc.—Continued.

#### PULPWOOD FROM CANADA.

Date of an	rival.	Quantity.	Value.		Date of arrival.	Quantity.	Val
1907.		Cords.			1907.	Cords. 10 16 8	
nuary 6 bruary 14		18 16 8	\$72	May	2	. 10	1
bruary 14		16	96	ļ	3	. 16	1
14		8	48		3	8	1
16		20 20 10 10 10 20 10 10 10	60		5	. 10	1
16		20	60		5	. 8	1
21		10	30	l	5	. 8	1
21		10	48	l	6	24 10	1
24		10	30	l	<u>7</u>	. 10	i
<b>2</b> 3		20	70	l	7	. 8	i
23		10	35	ŀ	7	8	1
25		10	35	i	7	. 8	ł
26		10	35	1	7	. 10	1
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11		10	34	1	8	. 10	1
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30		. 8	82	1	27	, š	1
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29		10	45	ı	16		1
29		1	82	l	17	18	1
29		9	82	l	18	1 4	1
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## PORT OF BUFFALO—Continued.

Statement of importations under paragraphs 393, 396, and 699 of the tariff act of July 24, 1897, at the port of Buffalo, N. Y., from January 1, 1907, to June 1, 1908, etc.—Continued.

## PULPWOOD FROM CANADA-Continued.

Date of arrival.	Quantity.	Value.	Date of arrival.	Quantity.	Valu
1907.	Corde.		_ 1908	Cords.	
120 26	10	848	January 13	10 12 11	1
26	. 8 8	32	14	12	
28	1 6	45	18	10	
29	16	64	20	14	1
dy 11	16 10	40	20	1 13	1
11	8 8 12	32	20	13 12 10 10	ı
11	. 8	32	20	1 10	l
12	. 12	60	20	10	1
14	8 12	32	20	9	1
15	. 12	60	20	. 9	1
18	8 8	82	20	12	l
18		32	21	. 10	
24	8 10	50	21	10 10 10	l
26	. 10	20	22	10	1
26	8	45	23	14	1
27	10	80	23	10	!
27	, a	22	24	12 14	l
igust 2	. 8 10	55	24	12	l
2	.  Š	32	26	14 10	ı
ptember 5	. 8 10	55	26	1 10	ı
7	18 10	***************************************	26	10 10 10 00	l
7	. 10	50	28	. 10	1
7	. 10	50	26	. 00	l
<u>7</u>	. 10	50	26	.] 10	l
7	. 10	50	27	. 11	ı
14	10 18	1 80	27	. 18	l
17	10	70	28	. 00	l
19	10	50	29	13	1
19	1 10	60	29	10	ı
24	10 10	65	February 1	12	1
24	io	65	Footuary 1	1 15	l
vember 16	. 10	65	4	1 10	l
16	10 10	65	i	11 18 00 13 10 12 13 13 12 10 10 10 10	l
23	. 10	65	4	10	1
23	10	65	4	10	1
23	10	65	4	10	1
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4	1 11	41	7	13	ı
6	8 12 10 11 14	24	<u> </u>	13 14 10 12	l
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27	13	90	17	10	l
27	12	37	17	10	1
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nuary I	14	56	19	10	I
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6	. 12	50	20	14 14	
9	12	84	20	14 13 10	
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#### PORT OF BUFFALO-Continued.

Statement of importations under paragraphs 393, 396, and 699 of the tariff act of July 24, 1897, at the port of Buffalo, N. Y., from January 1, 1907, to June 1, 1908, etc.—Continued.

#### PULPWOOD FROM CANADA-Continued.

				l	I
Date of arrival.	Quantity.	Value.	Date of arrival.	Quantity.	Value.
1908.	Cords.		1908. • March 8. · · · · · · · · · · · · · · · · · ·	Cords.	۱
February 20	10	<b>\$5</b> 5	March 8	, ,	34
20	10 20 12 9 10 12	55 160 60	9	11 14 13	24
21	12	60	Δ	19	00
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21	10	40	0	11	2
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23	10	84	9	13 14	1 7
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23	12	60	9	10	l Xi
23	10	55	10	13	1 7
23	10	55	10	. 13 13 12 10 12	1 7
23	12	60	10	12	l ŝi
24	19	95	11	10	l ži
25	12	60	11	12	l ë
25	12	60	11	12	60
25	10	40	12	14	7
25	12 12 10 10	70	12	12	60
26	12	60	12	12	60
26	19	98	12	12	6
26	12 19 12 12 8 10 12 20 13 12 12 12	45 0 3 8 6 6 6 7 7 8 8 6 6 6 6 6 6 8 5 5 8 6 6 6 6 6 6 7 7 8 6 6 6 5 5 8 7 7 8 6 6 6 5 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	12	11 10	5
26	12	60	12	10	50
26	. 8	40	12	10	844 44 44 44 44 44 44 44 44 44 44 44 44
27	10	65	12	10	50
28	12	48	13	15	7
29	20	98	13	10	70
29	13	65	13	11	50
29	12	60	13	9	44
29	12	60	14	9 14 12 12 14	8
	12	100	14	12	60
29	12	100	14	12	[60
March 2.	11	80	10	14	1 84
<b>ALERCI</b> 3	10	50	16 16	13 12	64
9	10	80		12	104
2	10 12 12 12 12 8 10 12 12 12	80	16	10 12 12 12	00
9	12	80	16	12	00
3	12	60	16	12	0
3	14	40	16	11	00
4	10	70	16	ii	00
4	12	63	16	10	I OX
Š	12	60	16	10	80
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5	12	55	17	12	i a
Š	14	98	17	12 13	6
5	14 10 10	70	17	8	40
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5	12	60	17	10	7
5	12	60	18	19	i o
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5	10	55	18	10	7
6	10	80	18	10	1 7
<b>5</b>	10	50	18	12	6
6	10	70	18	12 12 11	6
6	10	55	18	ĪĪ	9
5	10	55	18	11	5
<u> </u>	10	50	18	10 12	
7	14	70	18	12	6
7	10 10 14 13 12	65	18	11	5
7	12	60	18	10	5
ō	10	65	18	8	44
ð	12	84	19	13	9
5	14	74	19	10	70
8	12	72	19	10	56
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ō	12	60	19	10	70
0	11	05	19	10	7
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#### PORT OF BUFFALO-Continued.

Statement of importations under paragraphs 393, 396, and 699 of the tariff act of July 24, 1897, at the port of Buffalo, N.Y., from January 1, 1907, to June 1, 1908, etc.—Continued.

#### PULPWOOD FROM CANADA-Continued.

Date of arrival.	Quantity.		Date of arrival.	Quantity.	Valu
1908. .rch 20	Cords.	\$70	1908. March 27.	Cords.	١,
20	. 16	65	27	9	
20	. 11	C6	27	. 8 9	}
21	. 13	81	27	.  .9	l
21	. 12	75	28 28.	. 10	l
21	10 10	70	28.	13 12 13	1
21	. 10	70	28.	13	ĺ
21	. 10	70	28	10	l
21	ii ii	66	28	. 10	1
21	. 11	66	28	. 10 10	l
21	. 14	83	29	. 10	l
21	. 10	70	29	. 10	l
21	10 13	70	29	. 10	l
21	13	68	29	. 10	
22	. 13	91	29	. 10	l
22	. 13	53	29	. 10	l
22	13 13	78	29	. 10	ı
22	12	75	29	. 10	ı
22		63	29	. 14	ı
23	13 12	81	29	. 13	1
23	. 12	75	29	. 13 . 12 . 12 . 12 . 10	1
23	. 10	70	29	. 12	i
23	. 10	70	29	. 12	1
23	. 10	70	29	. 10	i
23	14	66	29	- 12	l
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23	10 12 12	50	30	. 10	
24.	12	84	30	. 10	i
24	12	70	30	. 10	ł
24	13	66	30	. 10	
24	14	66	30	. 13	1
24	14 13 14 13	66	30	. 12	1
24	. 13	63	30	. 12	
24	. 12	60	30	11 10	1
24	. 12	LO LO	30	- 10	l
24	11	58	30	. 10 12	l
24	- 10	91	31	12	
25	. 13 . 13 . 12 . 14	90	31	10	
25	13	81	31	. 10	
25	12	75	31	1 8	1
25	. 14	71	31	. 8	
25	. 10	70	April 1	. 10	1
25	. 12	66	1	. 12	l
25	12	G6	1	. 12	1
25	12	CO	1	. 13	l
25 25	- 12	CO	1	10	l
25 25	12 10 10	55	1	. 10	l
25	10	20	1	. 10 10	l
25	10	50	1.	10	1
26	. 10	55	1	1 10	1
26	. 79	75	1	10 10	1
26	. 10	70	1	12	1
26	. 10	70	1	12 12 12 12 12	
26	10 12	70	1	. 12	
26	. 12	60	1	12	1
26 26	10	55	1	- 12	ł
26	12	60	1	. 12 10 12	1
26	11 10	50	5	15	Ι.
26		42	2	10	Ι.
26	9	46	2	. 12 12 12	1
26		36	2	12	i
26	. 8	32	2	. 9	ı
27	10	53	3	. 10	1
27	. 14	65 C6 C6 C6 C7	3	10 12 12 12 12 12	ł
27	. 14	70	3	- 12	1
27	12 12	61	; <b>X</b>	1 12	ı

## PORT OF BUFFALO—Continued.

Statement of importations under paragraphs 393, 396, and 699 of the tariff act of July 24, 1897, at the port of Buffalo, N. Y., from January 1, 1907, to June, 1, 1908, etc.—Continued.

## PULPWOOD FROM CANADA-Continued.

Date of arrival.	Quantity.	Value.	Date of arrival.	Quantity.	Value
1908.	Cords 10 . 10 . 10 . 10 . 12 . 12 . 12 . 12 . 10 . 10		1908.	Cords.	
April 4	- 10	370	April 10	10 10	\$5.50877777777777777777777777777777777777
4	10	70	10	16	10
4	. 12	60	10	13	1 8
4	. 12	60	11	10	7
4	. 12	60	11	10	7
4	. 10	50	11	10	7
<b>7</b>	10	60	11 11	10 10	[ ]
0	. 12 10	50	11	10	
5	. 8	43	ii	10	1 5
5	. 7	35	11	10 10	1 7
5	. 14	95	11	10	7
<u> </u>	. 10	70	11	12	6
5	. 10	70	11	9 12	4
2	- 10	70	11	12 12	6
5	. 10	70	11	10	5
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5	. 10	\$70 700 600 600 555 555 555 555 700 605 555 700 605 555 700 605 555 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 555 700 605 700 700 700 700 700 700 700 700 700 7	11	10	1 4
<u> </u>	. 10	70	11	10	1 3
2	. 10	60	11	10 10	1
5	. 10 12 12	60	11	10	
5	12	60	ii	io	
5	. 10 10	55	12	13	1 8
5	. 10	55	12	9	
5	. 10	55	12	15	
5	10 10	55	12	10 12	1 5
5	- 10	55	12	12	
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8	10 10	70	12	10	, ;
6	. 5	45	13	10 13 12 12	l i
6	. 10	70	13	12	ě
6	. 12	60	13	12	6
7	10 10	70	13	9	4
7	- 10	65	13 13	.9	
7	10	155	13	12	
7	10	50	13	13 10 10	
7	10 10 12 12 11	55	13	10	
7	12	79	13	10 10 10	
7	. 12	60	13	10	
7	. 11	· 46	13	10	
<u>7</u>	. 8 10	45	13	12	
7		40	13 13	10 10	
7	- 10	60	17	10	1 5
7	12 10	60	13	10 10	1
7	. 10	55	13	10	į.
7	. 10	55	13	10	
7	. 10	55	13	. 9	
8	. 10	70	14	10	
ō	- 10	60	14	10	
g	- 10	55	14	10 10	
8	. 10 10 10 10	65	14	îŏ	1
8	io	70	14	10	
8	10 12	70	14	10	
8	. 12	60	14	10	
8	. 11	58	14 14	10	
ō	. 9 10	45	14	10 10	
9	- 10	00	14	10	
10	12	70	14	13	1
10	9 12 10	70	14	13 12	i
10	. 12	45 65 45 79 70 60 60 45	14	9	
10	12 12 9 10	60	15	10	
10	. 9	45	15 15	10 12	

#### PORT OF BUFFALO—Continued.

Statement of importations under paragraphs 393, 396, and 699 of the tariff act of July 24, 1897, at the port of Buffalo, N.Y., from January 1, 1907, to June 1, 1908, etc.—Continued.

#### PULP WOOD FROM CANADA-Continued.

Date of arrival.	Quantity.	Value.	Date of arrival.	Quantity.	Value
1908.	Cords.		1908.	Cords. 10 12 10 12 10 11 10 11 10 11 10 11 10 11	
April 15	.] 12	\$60	April 20	10	80
15 15	12 13 15 10	85	20. 20.	12	
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15	. 10	70	21	9	ı ă
15	. 10	70	21	10	7
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15	. 10	70	21	12	8
15	10	70	22 22	10	7
ID	10 10	70	22	10	7
15	10	70	22	10	l á
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16	. 13	78	22	10	6
16	. 13	78	22	12	0
10 18	12 10	78	22 22	12 13	7.
16	10	70	22	10	7
16	10	70	22	10	7
16	. 10	70	22	10	7
16	12	60	22	10	7
16	. 10	60	22	10	7
10	. 10 10	50	22 22.	12 12	0
16	10	55	22	10	, S
16	10	55	22	10 10	, ,
16	10 10	55	22	9	4
16	.] 10	55	22	10	7
16	. 10	55	23	15	9
16	10 10	50	23	10	7
16	10	50	23	19 10	7
16	. 10	70	23	10	7
16	. 10	60	23	10	7
17	10 10	70	23	10 10	5
17	- 10	50	23. 23.	10	7
18	15 12	75	23	10 10	2
18	12	84	23	10	7
18	. 10	70	23	10 10	7
18	. 10	70	23	10 10	7
19	. 12	84	23	10	7
19	10 10	70	2323	10 10	5
19	10	***************************************	23	10	**************************************
19	10	70	24	10 12	, a
19	. 10	70	24	10 10	7
19	. 10	70	24	10	0
19	. 10	70	24 24	10	7
19	. 10	80	24 25	12	9
19	12 10	60	25	10 10	1 5
19	. 12	60	25	10	1 5
19	. 12	60	25	9	4
19	. 12	60	25	9	4
19	12	60	26	10	7
19	10	60 80	26 26	12 12	2
19	10 14 15 10	88	26	10	2
20	15	👸	26	10	7
20	.] 10	70	26	. 10 . 10 10 10	7
20	.  10	70	26	10	7
20	. 10	70	26	10	
90	10 10	70	26 26	10	
20	10	60	26	12 13	

#### PORT OF BUFFALO-Continued.

Statement of importations under paragraphs 393, 396, and 699 of the tariff act of July 24, 1897, at the port of Buffalo, N.Y., from January 1, 1907, to June 1, 1908, etc.—Continued.

PULP WOOD FROM CANADA-Continued.

[Under paragraph 699.]

	Date of arrival.	Quantity.	Value.	Date of arrival.	Quantity.	Value
	1908.	Cords. 12		1908.	Cords.	
pril	28	12	\$60	May 2	10	
-	26	12 12	60 60 60 60 45 70	2	10	
	26	12	60	2	10	} .
	26	10	60	2	12	
	26	12 12	60	8	13	
	26	12	60	3	11	1
	26	9	45	3	10	1
	27	10	70	3	10	l
	27	10	60	3	10	1
	27	10	60 60 60	4	12	
	27	12	60	4	12	i
	27	10	60	4	12	1
	27	13	81	4	10	
	27	12	75	6	20	
	28	9	45	6	10	ı
	28	10	70	6	12	I
	28	10	70	6	12	1
	28	ĩŏ	81 75 45 70 70 60 38 60	6	12	1
	28	10	38	6	12	i .
	29	10	ÃÕ	6	12	1
	29	10	55	6		1
	29	îŏ	55 40	Ř	12	
	29	10	40	0	ii	i
	29	13	81	0	10	l
	29	îĭ	Ã	0	12	1
	29	12	81 69 64	<u> </u>	12	1
	29	ii	55	10		1
	29	9	55 45 60	10	12	
	29	12	- F	10	12	1
	29	12	60	11	10	1
	29	12	60	ii	12	
	29	12	en en	12	12	
	29	10	60 60	12	13	ł
	29	12	60	12		l
	29	10	66	12	10	i
	29	10	55	12		l
	20	10	50	12	12	1
	30	10	55 55 50 70			1
	30	12	40			1
	20	10	60 60			l
	30	10	60			
	30	12	60	16		1
	20	10	50		10	l
	ov	12	55 66	18	12	
Ŋ	1	12	66	10	12	l
	1	10	60	18		I
	1	12	90			I
	4	10	60 60	21		l
	4	10	00		13	1
	<u>.</u>		60 60	22	14	I
	<u> </u>	10	90	29	13	1
	1	.9	90	27	14	l
	<i>4</i>	11	45 80 60	27	12	
	<u>4</u>	10 12	60	Total	10.400	58, 1
	6	12	60 60	TUM	10,660	90,1
- 1	<b>#</b>	121	ושס			

40197-No. 30-08-4

#### PORT OF OSWEGO, N. Y.

No importations during the period January 1, 1907, to June 1, 1908, of wood (pulp under paragraph 393), filter masse or filter stock (under paragraph 395), or printing paper (under paragraph 396), of the tariff act of 1897.

Statement of pulp woods imported into the district of Oswego, N. Y., under paragraph 699 of the tariff act of July 24, 1897, during the period from January 1, 1907, to June 1, 1908.

Date of arrival.	Quantity.	Whence imported.	Value.
May 28	284 1,153 294 1,138 960 1,498 960 1,714 1,757 1,229 613 1,199 1,375 1,792	Province of Quebec, Canada do	1, 420, 00 5, 6, 0, 0 4, 724, 56 7, 490, 00 4, 800, 00 8, 785, 00 6, 145, 00 3, 997, 56 5, 995, 00 10, 659, 56

Statement of pulp wood imported into district of Cape Vincent, N. Y., from January 1, 1907, to June 1, 1908, from Quebec, Canada.

Date imported.	Quantity.	Value.	
1907.	Cords.		
June 5	500	<b>\$3,500.00</b>	Free under paragraph
June 27	700	3, 675, 00	Do.
July 6		3, 150, 00	Do.
July 12		3, 675. 00	Do.
July 23		3, 675. 00	Do.
August 3		7, 675. 00	Do.
August 21		3, 675, 00	Do.
August 27		3, 675, 00	Do.
September 9.		3, 675. 00	Do.
Beptember 19.	700	3, 675, 00	Do.
September 26.		3, 675. 00	Do.
October 9.		3, 675, 00	Do.
October 15	500	4, 125, 00	Do.
October 25	700	3, 675, 00	Do.
November 5	700	3, 675, 00	Do.
December 6	442	3, 536. 00	Do.
Total	10, 942	62, 411, 00	

None of the following articles were imported into this district during the period stated: Any kind of wood pulp; filter masse or filter stock; no class of printing paper.

## PORT OF OGDENSBURG, N. Y.

Tabulated statement showing the date of arrival, quantity, appraised value, country of origin, and duties collected in the district of Oswegatchie, N. Y., on each importation of the various kinds of wood pulp specified in paragraph 393, from January 1, 1907, to June 1, 1908.

#### MECHANICALLY GROUND WOOD PULP.

Data.	Quantity.	Appraised value.	Country of origin.	Duty.	Addi- tional duty.
1907.	Pounds.				
January 2	62,361 62,361	\$608.00	Canada	\$51. 97	\$2.84
Do	62, 361	586.00	do	51. 97	2.34
Do	66,005	709.00	do	55. 07	
January 14	62, 361	586.00	do	51. 97	2.84
Do	165, 258	1,611.00	do	137. 72	6.20
January 25	81, 181	296.00	do	25. 98	1. 17
Do	31, 181	296.00	do	25. 98	1. 17
D0	155, 904	1,520.00	do	129. 92	5.85
February 1 February 5 February 16 February 19	131, 185 157, 786	1, 181. 00	do	109. 32	4.92
Pohymer 18	154,780	1,420.00	do	131. 49 130. 14	5. 92
Eshemer 10	156, 173 62, 684	1,406.00 589.00	do	52. 24	5.86 2.85
February 25	44, 267	409.00	do	36. 89	2.00
March 2	31,718	301.00	do	26. 43	1. 19
March 15	143,679	1,293.00	l do l	119. 73	8.39
March 26	155, 904	1,403.00	do	129. 92	5. 85
	59,244	557.00	do	49. 37	2. 22
April 8	62,362	586.00	dodo	51. 97	2. 34
▲pril 9	31, 181	296.00	ao	25. 98	1. 17
April 10	155, 905	1,403.00	do	129. 92	5.85
April 8. April 9. April 10. April 20.	155, 904 71, 716	1,403.00	do	129. 92	5.85
	71,716	932.00	do	59. 76	2. 69
May 4	155, 905	1,403.00	do	129. 92	5. 85
June 21	159.054	1,422 00	do	131. 71	5. 93
June 26	62,577	704.00	do	52. 15	2.15
July 3	160.857	1,448.00 354.00	do	134. 05 26. 21	6.03
July 3. July 5. July 8.	31, 450 63, 437	698.00	do.	52. 86	1. 18 2. 38
July 12.	62 362	861.00	do.	51. 97	2.34
July 15	62, 362 85, 747	772.00	do	71. 46	3. 22
July 15	93, 542	842.00	do.	77. 95	8. 51
July 22	93, 542	889.00	do	77. 95	8.51
July 29	93, 542	889 00	do	77. 95	8. 51
July 21	155, 904	1,403 00	do	129. 92	5. 85
August 1	46,771	608. 00	do	38. 98	1.75
August 1 August 5 Do	90, 424	859.00	do	75 35	3. 39
Do	148, 111	1, 333. 00	do	123. 43	5. 55
August 12	56,890	626.00	do	47. 42	2. 13
August 24.	67,941	487. 00	do	56. 62	
August 28.	61,012 20,674	671.00 142.00	do	50 84 17. 23	2. 29
August 30.	171, 494	2, 229. 00	do	142.91	6.4
Do	182, 690	1,644.00	do	152 24	6.85
Do	31, 181	296.00	do	25, 98	1.17
Do	124, 723	1,213,00	dodo	103. 94	4.68
Do	124, 723	1, 123, 00	do	103. 94	4.68
Do	62, 362	639.00	do	51. 97	2.34
Do	71,716	735.00	ldo	59. 76	2, 69
Do	65, 480	671.00	do	54. 57	2.46
Octol er 4	24, 199	194.00	do	20. 17.	••••
October 10	35, 858	394.00	do	29. 88	1.34
October 29	14, 167	113.00	do	11. 81 104. 12	4, 69
October 30	124, 938 63, 114	1, 124. 00 710. 00	dodo	52, 60	2. 37
November 2.	154, 345	1,389.00	do	128. 62	5.79
November 4	85, 747	879.00	do	71. 46	3 22
November 6	59, 243	652.00	do	49. 37	3. 22 2.22
November 16	62, 362	561.00	do	51. 97	2 34
November 16.	93, 542	842.00	do	77. 95	2 34 3 51
November 19	91.983	828.00	do	76. 65	3, 45
November 20	91,929	942.00	do	76. 61	8. 45 1. 15
Do	30, 643	345, 00	dodo	25. 54	1. 15
Do	45, 964	414.00	do	38. 30	1.72
November 22	20, 390	138.00	do	16. 99	2, 55
November 23	91,930	942.00	do	76. 61	3. 45 1. 95
November 28	52,093	573.00	do	43. 41 72. 78	1. 95 3. 28
December 5	87. 333 23. 386	895. 00 257. 00	do	19. 49	. 88
December 12	62,362	686.00	do	51. 97	2 34
December 17 December 21	62, 362		do	51. 97	2.34 2.34 6.72

Tabulated statement showing the date of arrival, quantity, appraised value, country of origin, and duties collected in the district of Oswegatchie, N. Y., on each importation of the various kinds of wood pulp specified in paragraph 393, from January 1, 1907, to June 1, 1908—Continued.

#### MECHANICALLY GROUND WOOD PULP-Continued.

Date.	Quantity.	Appraised value.	Country of origin.	Duty.	Addi- tional duty.
1908.   February 1   1908.   February 6   1908.   February 7   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.   1909.	162, 288 165, 379 77, 280 49, 459 165, 379 111, 903 117, 848 171, 279 69, 243 179, 290	1, 695, 00 792, 00 544, 00 1, 695, 00 839, 00 884, 00 1, 756, 00 595, 00 762, 00 1, 838, 00 680, 00	Canada	135. 24 137. 82 64. 40 41. 22 137. 82 93. 25 98. 21 142. 73 45. 06 57. 70 149. 41 51. 52	\$2. 77 6. 09 6. 20 2. 80 1. 85 6. 20 2. 63 2. 60 6. 72 2. 82 6. 43
Total	7,813.846	75.714.00		6,510.74	277. 07

#### UNBLEACHED CHEMICAL WOOD PULP.

		···	<del> </del>	<del></del>	
1907.	Pounds.				
January 5	27,076	\$406.00	Canada	<b>\$4</b> 5. 13	\$4. 83
_ Do	18,056	271.00	do	30.09	3.22
January 8.	18.101	272.00	do	30. 17	3. 23
January 29	18,083	271.00	do	30.14	3. 23
, Do	18.092	271.00	do	30. 15	3. 23
February 2	18.054	271.00	do	30.09	3. 23
Do	18.031	270.00	do	30. 05	3. 22
February 8	18.020	270.00	do	30. 03	3. 22
February 19	18.036	271.00	do	30.06	3. 22
March 11	18,069	271.00	do	30. 12	3. 23
March 13	27,096	406, 00	do	45. 16	4.84
νο	27.083	406.00	do	45.14	4.84
Do	18.085	<b>27</b> 1.00	do	30. 14	3. 23
Do	18.013	270.00	do	30.02	3.22
Aprii 19	15.246	<b>229</b> . <b>00</b>	do	25. 41	2.72
May 2	15, 257	<b>22</b> 9. 00	do	25. 43	2.72
Do	14.840	223.00	do	24. 73	2.65
Do	15. 232	228.00	do	25. 39	2.72
May 3	15.260	229.00	do	25. 43	2.73
May 21	15.222	<b>228</b> . 00	do	25. 37	2.72
May 22	15. 217	228.00	do	25. 38	2.72
May 24	15. 266	229, 00	do	25, 44	2.73
May 28	15, 291	229.00	do	25, 49	2.72
May 29.	15, 255	229.00	do	25, 43	2.72
May 31	19.019	285.00	do	31. 70	3.40
une 4	19.009	285.00	do	31.68	3.39
June 8.	22, 839	343.00	do	38.07	4.08
July 27		223.00	do	24, 73	2.63
July 30	18, 529	278.00	do	30.88	3.31
August 6.	14.859	223, 00	do	24. 77	2.64
August 21	27,054	436, 00	do	45.09	4.83
August 22	18,081	271.00	do	30.14	1 23
Do		271.00	do	30, 11	3 2
Beptember 5	18, 065	271.00	do	80. ii	3.22
Do	22.592	339.00	do	37. 65	4.03
September 7	22, 237	334.00	do	37.06	197
September 21	16, 245	246, 00	do	27.08	2.90
September 28	18.087	271.00	do	30. 15	12
October 3.	18,083	271.00	do	30. 14	12
October 8.	23.980	360.00	do	89.97	12
Do	19, 478	292.00	do	32. 44	1.4
October 18.	27,056	406.00	do.	45.09	4.8
October 29.	18,018	270.00	do.	80.08	1.22
	22,500	338.00	do	37.50	4.02
Do		273.00	do.	30, 29	1.2
November 8	18,000	270.00	do.	30.00	1.2
Movember 11		525. 00	do	29.16	2.2
November 11	27,000	405.00	do	45.00	
November 21	18, 247	274.00	uo		4.5
November 23			do	80.41	3.20
December 16	18,000 (	270.00	do	<b>30.00</b> I	3 21

Tubulhted statement showing the date of arrival, quantity, appraised value, country of origin, and duties collected in the district of Oswegatchie, N. Y., on each importation of the various kinds of wood pulp specified in paragraph 593, from January 1, 1907, to to June 1, 1908—Continued.

UNBLEACHED	CHEMICAL	WOOD	PTILP-	Continued.

Date.	Quantity.	Appraised value.	Country of origin.	Duty.	Addi- tional duty.
1907.	Pounds.				
December 21	26, 066	\$391.00	Canada	\$43.44	\$4.00
December 27	22.826	342.00	do	38.04	4.08
Do	22, 858	343.00	do	38. 10	4.06
1908.					1
January 4	15, 200	228, 00	do	25, 33	2.71
January 13	22 800		do	38, 00	4.07
January 20	22 800		do	38, 00	4. 07
Do	15. 200		do		2.31
Do	22 800	342.00	do		4.07
February 11			do	25, 33	2.23
February 13	18, 701		do	31, 17	2.74
February 17	15, 200	228.00			2.71
Do		228.00	do		2.71
Do	15, 200	228 00	do		2, 71
Do		285, 00	do		8.30
February 24	15, 200	228.00	do	25. 33	2.71
Total	1, 231, 785	18, 572. 00		2, 052. 95	215. 3

No importations during the period from January 1, 1907, to June 1, 1908, of filter masse or filter stock under paragraph 395 and bleached chemical wood pulp under paragraph 393 of the tariff act of 1897.

Tabulated statement showing the date of arrival, quantity, appraised value, country of origin, and duties collected, in the district of Oswegatchie, N. Y., on each importation of the various classes of printing paper provided for under paragraph 396, in the district of Oswegatchie, N. Y., from January 1, 1907, to June 1, 1908.

Date.	Quantity.	Appraised value.	Country of origin.	Duty.	Addi- tional duty.
1907.	Pounds.				
January 22	31.944	\$575, 00	Canada	<b>295</b> , 83	
February 5.	40,794	725.00	do	122.38	
February 16	31,726	517.00	do	95, 18	
February 18	40.029	597.00	do	120.09	
February 19	88,400	1.319.00	do	265, 20	
February 20	33,211	565, 00	do	99. 63	
February 21	90,581	1,352.00	do.	271.74	
February 28	33,124		do.	99. 37	
March 6	93.137		do	279, 41	
March 7	139,172	2,296.00	do	417. 52	
March 9	26,915	484.00	do	80.75	
April 13	30.244	560.00	do	90, 73	
Do	29,705	550, 00	do	89, 12	
April 15	29,148	539.00	do	87. 44	
Do	29,391	544.00	do	88, 17	
April 16	29,810	549.00	do	89. 43	
April 18	43,850	820.00	do	131. 55	
Do	47.539	889.00	do	142, 62	
Do	41,753	781.00	do	125, 26	
Do	51.814	969.00	do	155, 44	
Do	47,502	888.00	do	142. 51	
Do	29,691	549, 00	do	89, 07	
April 20	29,300	539, 00	do	87.90	
Do	30,461	564.00	do	91, 38	
Do	29,249	541.00	do	87.75	
April 22	31,378	577.00	do	94. 13	
Do	38.158	702.00	do	114, 47	
April 25	33.277	616.00	do	99, 83	
Do	31,022	571.00	do	93, 07	
April 27	38,170	763.00	do	114.51	
Do	33,563		do	100.69	1

Tabulated statement showing the date of arrival, quantity, appraised value, country of origin, and duties collected, in the district of Oswegatchie, N. Y., on each importation of the various classes of printing paper provided for under paragraph 396, in the district of Oswegatchie, N. Y., from January 1, 1907, to June 1, 1908—Continued.

Data.	Quantity.	Appraised value.	Country of origin.	Duty.	Addi- tional duty.
1907.	Pounds.				
April 27	30,535	\$565.00	Canadado	\$91. 61 94. 21	
Do	31,419 30,545	581.00 565.00	do	91.64	
April 30 Do	88,960	625.00	dodo	101.88	
Do	46,667	863.00	do	140.00	
May 1	66.536	1,224.00	do	199. 61	
May 3	41,568 37,332	852.00 691.00	dodo.	166. 27 112. 00	
May 6	41.899	770.00	do.	125. 61	
May 8	87,220	678.00	do	111.66	
Mayo	35,230	652.00	do	105, 69	
May 11	34,520 32,258	639.00	do	103. 56	
May 13	32,258 37,432	597.00 692.00	dodo	96. 77 112. 30	
May 11	32,546	602.00	do	97. 64	
May 16.	35, 549	658.00	do	106.65	
Do	34,726	642.00	do	104. 18	
May 20	84,724	642.00	do	104. 17	
- D0	32, 155 28, 120	595.00 520.00	dodo	96. 47 84. 36	• • • • • • • •
May 20	84, 477	638.00	do	103. 43	
Do	41,259	763.00	do	123, 77	
Do	41,047	739.00	do	123. 14	
Do	33,842	626.00	do	101. 53	
Do	38, 577 29, 434	714.00 618.00	do do	115. 78 142. 84	
May 25	39, 636	783.00	do	118.91	
Do I	38, 243	708.00	do	114, 73	
Do	36,772	680.00	do	110. 32	
May 30	37, 505	694.00	do	112. 52	
Do.	37, 135 38, 204	687.00 688.00	do	111. 41 114. 61	
June 4	39, 244	706.00	do	117. 73	
June 6	44, 586	825.00	do	133. 76	
June 7	44,649	826.00	do	133. 95	
June 8. June 10.	36, 603 31, 568	677. 00 584. 00	dodo	109. 81 94. 70	····
June 11	46,340	1,019.00	do	185. 36	
June 15	35, 115	650.00	do	105.35	
Do	40, 351	746.00	ldo	121.05	
Do	45,046	833.00	do	135.14	
June 27	42,475 87,042	637.00 685.00	dodo	159. 25 111. 13	
July 6.	77,923	1,442.00	do	223.77	
Tuly 8	1,845	48.00	do	9. 25	
July 18	44, 692	706.00	do	134.08	
July 16	39,069	598.00 1,487.00	do	117. 21	
Inly 20	80,390 31,200	602.00	do	241. 17 93. 60	
July 30. August 10.	8,740	69.00	do	11. 22	
A 11gr) left 13	37, 433 36, 707	655.00	do	112.30	
August 24. September 7. September 13.	36,707	679.00	do	110. 12	····
September 7	43, 615 34, 836	807.00 644.00	dodo	130. 85 104. 51	
September 14	81,029	574.00	do	93.09	
Do	87,640	696.00	do	112.92	
Do September 18	87, 581	695.00	do	112.74	
September 21 September 28	41,809	753.00	do	125. 43	
Do	40, 599 39, 163	751. 00 725. 00	dodo	121. 80 117. 49	
Do	36, 763	721.00	do	110. 29	
October 2	44, 164	883.00	do	132.49	
Do	39, 425	729.00	dodo	118. 28	
DoOctober 7October 16	2,000 41,229	37.00	do	6.00	
October 16	41,229 35,833	763.00 663.00	dodo	123. 69 107. 50	
October 18	43.844	811.00	do	131. 53	
October 22	42,289	782.00	do	126. 87	
Do	41,876	775.00	ldo	125, 63	
Do	38,596	714.00 668.00	do	115. 79	····
October 24	36,084 41,329	765.00	dodo	108. 25 123. 99	·····
A 3************	40,759	754.00	do	122, 28	1
October 29	43.941	101.00		131. 82	

Tubulated statement showing the date of arrival, quantity, appraised value, country of origin, and duties collected, in the district of Oswegatchie, N. Y., on each importation of the various classes of printing paper provided for under paragraph 396, in the district of Oswegatchie, N. Y., from January 1, 1907, to June 1, 1908—Continued.

Date.	Quantity.	Appraised value.	Country of origin.	Duty.	Addi- tional duty.
1907.	Pounds.				
November 4	35, 530 85, 100 38, 492	\$657.00	Canada	\$106.59	l
November 6	85, 100	649.00	do	105. 30	
Do	38, 492	712.00	do	115. 48	
DoNovember 7	43, 551	806.00 869.00	do	130, 65 140, 97	
November 0	46,990	783.00	do	126. 90	
November 9 November 11	42,301 41,299	764.00	do	123. 90	
November 13	87,844	700.00	do.	113, 53	
November 14.	68, 298	1,264.00	do	204.89	
Do November 15	39, 107	723.00	do	117. 32	
November 15	40,604	751.00	do	121.81	
Do November 19	41,540	768.00 732.00	do.	124. 62 118. 68	• • • • • • • • • • • • • • • • • • • •
	39, 561 39, 355	728.00	do	118.07	
Do November 22	36, 258	671.00	do	108. 77	
November 29	41.771	773, 00	do	125. 31	
November 30	38, 256 35, 751	707.00	do	114.77	
December 6		661.00	do	107. 25	
December 6	51,636	955.00	do	154.91	
December 9 December 12	87,075	686. 00 798. 00	do	111. 23	
Do	43, 138 43, 397	803.00	dodo	129. 41 130. 19	ļ
Do	37,072	686.00	do	11 22	
Do December 13	40,928	757.00	do	11. 22 122. 78	
December 18	37,502	694.00	ldo	112. 51	
Do	43,015	796.00	dodo.	129. 05	
Do December 19	39, 483	730.00	do	118. 45	
December 19	34,008	646.00	dodo.	102.02	<b></b>
Do December 20	35, 827 56, 753	681.00 1,078.00	do	107. 48 170. 26	
December 20	35, 878	682.00	do	107. 63	
December 21	43,730	831.00	do	131. 19	
December 23	42, 352	805.00	do	127.06	
Do December 24	42, 352 42, 080	800.00	do	126, 24	
December 24	87,531	713.00	do	112. 59	
Do	87,829	719.00	do	113. 49	
December 28	45, 512	865.00 753.00	dodo	· 136.54 118.82	
Do	39, 608 36, 589	695.00	do	109. 77	
	55,505			200111	
1906.	40,864	776.00	do	122, 59	
January 1. January 2.	40, 138	763.00	do	120. 40	
January 4.	40, 138 40, 310 44, 237 40, 778	766.00	ldo	120. 93	
January 4 Do	44, 237	841.00	do	132. 71	
January 6	40,778	775.00	do	122. 33	
January 8. Do. January 9.	37.107	705.00 785.00	dodododododo	111. 32	
Jones 0	41, 341 36, 287	689.00	dodo	124.02 108.86	• • • • • • • • • • • • • • • • • • • •
Do	40, 241	765.00	do	120. 72	• • • • • • • • • • • • • • • • • • • •
Do	40, 590	771.00	do	121.77	
January 10 January 11 January 13 January 14	40 848	947.00	do	149.54	
January 11	37, 258 37, 210 44, 844	708.00	ldo	11L 77	
January 13	37,210	707.00	do	111. 63	
January 14	44,844	852.00 751.00	do	134, 53 118, 52	
January 17	39,508 46,745	888.00	do	140. 24	
January 17 January 18 January 20 January 21	46, 745 33, 710	640.00	do	101. 13	
January 20	43, 156	820.00	do	129, 47	
January 21	43, 156 41, 206	783.00	do	123, 62	
	36, 278	689. 00	do	108. 83	
January 22. January 23. January 25. January 27. January 30.	40,617	772.00	do	121. 85	
January 23	38, 753	736. 00 843. 00	dodo	116, 26 133, 07	
January 27	44, 357 36, 940	702.00	do	110. 82	
January 30	37,694	716.00	do	113.08	
January 31	41,819	795. 00	do	125, 46	
January 31 February 3	42,810	813.00	do	128 43	
February 4	35, 422	673.00	do	106, 27 112, 76	
February 6	35, 422 37, 585 43, 801	714.00	do	112.76	
Do	43, 801 40, 624	832.00	do	131. 40	
	= 5U.024	772.00	do	121. 87	1
Do Do	41 202		do	193 A1	
February 8 Do	41, 203 89, 442	783. 00 749. 00	do	123, 61 118, 33	

Tabulated statement showing the date of arrival, quantity, appraised value, country of origin, and duties collected, in the district of Oswegatchie, N. Y., on each importation of the various classes of printing paper provided for under paragraph 596, in the district of Oswegatchie, N. Y., from January 1, 1907, to June 1, 1908.—Continued.

Date.	Quantity.	Appraised value.	Country of origin.	Duty.	Addi- tional duty.
1908.	Pounds.		0		
February 12	39, 851 38, 560	\$757.00 783.00	Canadado	\$119, 55 115, 68	
DoFebruary 15	39,037	742.00	do	117. 11	
Do	45,068	856, 00	do	135, 20	
Do	43, 137 43, 273	820.00	ldo	129. 41 129. 82	
DoFebruary 20February 21	43, 273	822, 00	do	129, 82	
February 20	85, 449	674.00	do	106. 35	
February 21	44, 197	840, 00 745, 00	do	132. 59	
Do Pebruary 25	39, 209 36, 889	701.00	do	117. 63 110. 67	
Do	41, 433	787. 00	do.	124, 30	
Do	42, 150	801.00	do	126, 45	
ebruary 29	44, 406	844.00	do	132, 22	
Do	45, 340	861.00	do	136. 02	
farch 2	38, 185 40, 345	726. 00 767. 00	dodo	114.56 121.04	
Do	40, 551	770.00	do	121. 65	
farch 7	80, 361	1,527.00	do	241.08	
Do	43,042	818.00	dodododo	129. 13	
farch 9	45, 476	864.00	do	136. 43	
Do	34, 848	662.00	do	104. 54	
Larch II	41,394	786.00	do	124. 18	
Do	40, 137 42, 679	763. 00 802. 00	dododododo	120. 41 128. 04	
farch 12	35, 320	671.00	do	105. 96	
Do	42,916	815.00	do	128. 75	
Do	67, 911	1,290.00	do	203, 73	
farch 13 Do	41,338 41,788	785.00	do	124. 01	
Do	41,788	794.00	do	125. 36	<b>-</b>
Do	43,020 33,772	817. 00 642. 00	dodo	129. 06 101. 32	
forch 19	41,721	793.00	do	125. 16	
farch 20	41,987	798.00	do	125. 96	
Do	41,609	791.00	do	124.83	
farch 20	40, 963	778.00	ldo	122.89	
Do	75, 053	1, 426. 00	do	225. 16	
DU	42,346 43,145	795. 00 820. 00	do	127. 04 129. 44	
Do	41,062	780.00	dodo.	123. 19	
(arch 24	39, 166	744.00	do	117. 50	
March 26	41,001	779.00	do	123.00	
March 27	40, 107	762.00	do	120. 32	
Larco 28	45, 767	870.00	do	137.30	
Do	39, 199 42, 865	745.00 814.00	dodo.	117. 60 128. 60	
April 1 April 2	41,540	789.00	do.	124, 62	
1)^	36, 563	695, 00	do	109.69	
pril 3	37, 263	7(8.00	do	111.79	
Do	43,669	830.00	l do	131.01	
April 3. Do April 6. April 7.	43, 425	825.00	do	130.28	
April 7	41, 206 36, 785	783. 00 699. 00	dodo.	123. 62 110. 36	
Do	35, 043	666.00	ldo	105. 13	
April 8	38, 909	739.00	dodo.	116, 73	
pril 9	35, 694	678.00	do	107. (8	
Do	36, 030	685.00	do	108.09	
Do	42, 109	800.00	do	126. 33 13. 47	
Lprii 18	4, 490 37, 323 37, 764	84.00 709.00	dododo	111. 97	
pril 16	37, 784	718.00	do	113. 29	
pril 17	35, 504	675.00	do	106. 51	
Do	38, 649	734.00	dodo.	115. 95	
April 17	35, 470	674.00	do	106. 41	
Lpril 20	43, 297	823.00	do	129.89 123.89	
Do	41, 295 35, 609	785.00 677.00	dodo.	123 89 106.83	
Do	35, 738	679.00	do	107. 21	
April 21	40, 415	768.00	dododododo	121.25	l
April 22	36, 460	723.00	do	109.38	
DoApril 21	45,674	868.00	do	137. 02	
April 23	36,750	698.00	do	110.25	
Do	38, 983	741.00	dodo.	116.95	
Do	38, 445 41, 540	730. 00 789. 00	do	115. 34 124. 62	
	41, 442	787.00	do	124. 33	

Tabulated statement showing the date of arrival, quantity, appraised value, country of origin, and duties collected, in the district of Oswegatchie, N. Y., on each importation, of the various classes of printing paper provided for under paragraph 396, in the district of Oswegatchie, N. Y., from January 1, 1907, to June 1, 1908—Continued.

Date.	Quantity.	Appraised value.	Country of origin.	Duty.	Addi- tional duty.
1908. A pril 24. A pril 25. A pril 25. A pril 27. A pril 30. May 2. May 2. May 5. Do May 8. May 11. Do May 13. Do Do Do May 14. Do Do Do May 14. Do Do Do May 15. May 16. Do Do May 18. May 18. May 18. May 20. May 22. May 23. May 24. May 27.	Pounds. 35, 123 71, 447 40, 910 39, 050 46, 176 40, 615 36, 417 35, 850 38, 699 37, 727 36, 615 38, 932 35, 879 41, 505 41, 480 41, 334 41, 059 34, 858 36, 146 36, 581 41, 103 38, 838 38, 65	\$667.00 1,357.00 742.00 877.00 772.00 692.00 700.00 735.00 1,141.00 696.00 740.00 789.00 766.00 789.00 788.00 788.00 788.00 788.00 788.00 788.00 788.00 788.00 788.00 788.00 788.00	Canada	\$105. 37 214. 34 122. 73 117. 15 138. 53 121. 85 109. 25 110. 55 116. 10 350. 60 113. 18 113. 17 124. 93 115. 44 124. 21 124. 00 123. 18 104. 44 124. 21 124. 01 123. 18 104. 44 124. 21 124. 01 125. 18	duty.
May 28. May 29. Do. May 30. Total.	43, 010 40, 974 38, 474 36, 193 12, 439, 088	817. 00 779. 00 731. 00 688. 80 217, 031. 00	do	129. 03 122. 92 115. 42 108. 58 35, 083. 31	6. 68

Tabulated statement showing the date of arrival, quantity, appraised value, country of origin, and duties collected, in the district of Oswegatchie, N. Y., on each importation of pulp wood in the district of Oswegatchie, N. Y., from January 1, 1907, to June 1, 1908.

Date.	Quantity.	Appraised value.	Country of origin.	Duty.
1907.	Cords.			
anuary 2	44	\$220,00	Campbells Bay, Canada	Free.
anuary 4	22	110.00		Free.
anuary 7		60.00	Gracefield, Canada	Free.
anuary 8		58.00	Quebec, Canada	Free.
Do			do	Free.
Do	10		!do	
Do	10	35.00	ا do	Free.
Do		55.00	North Wakefield, Canada	Free.
Do	11	55.00	dodo.	Free.
anuary 9	10	35.00	Quebec, Canada	Free.
Do	10	35.00	l do	Free.
anuary 10	10	35.00	do	Free.
Do	10	35.00	do	
Do	17	89.00	do	Free.
Do	13	71.00	Beaupre, Quebec, Canada	Free.
Do	ii	55,00		Free.
anuary 11	10	53.00		
Do		41.00	.do.	
anuary 12			do	
annary 16		50.00	do	Free.
anuary 18		55, 00	North Wakefield, Canada.	Free.
anuary 21	ii	55.00	do	
anuary 23		35.00	Quebec, Canada.	Free.
anuary 24		35.00	do	Free.
Do	iĭ	60.00	do	
anuary 28	10	40.00	Snow Road, Canada	

Tabulated statement showing the date of arrival, quantity, appraised value, country of origin, and duties collected, in the district of Oswegatchie, N. Y., on each importation of pulp wood in the district of Oswegatchie, N. Y., from January 1, 1907, to June 1, 1908—Continued.

Date.	Quantity.	Appraised value.	Country of origin.	Duty.
1907.	Cords.			
anuary 29	16	\$85.00	Quebec, Canada North Wakefield, Canada do Quebec, Canada	Free.
Do	11	55.00 55.00	North Wakeneld, Canada	Free.
D0	11 13	70.00	Quebec Canada	Free.
anuary 30	13	68.00	do	Free.
Do I	11	55.00	Wakefield, Canada	Free.
February 2	14	74.00	Quebec, Canadado	Free.
Do	11	59.00		Free.
rebruary 8	16 22	86.00 110.00	dodo	Free.
Do February 9	10	85.00	Quebec, Canada	Free.
Do	10	85.00	do	Free.
Do	13	59.00	Black River, Canada. Quebec, Canada. Wakefield, Canada.	Free.
Pahruary 11	12	67.00	Quebec, Canada	Free.
Do	11	65.00	Wakefield, Canada	Free.
D0	10	45.00	Bulovor, Canada.	Free.
Do February 14	11 10	55.00 50.00	Ayiwin, Canada	Free.
rebruary 14	10	50.00	rroux, canada	Free.
Do	13	69.00	Aylwin, Canada. Proulx, Canada. do. Quebec, Canada. Black River, Canada.	Free.
Do	13	50.00	Black River, Canada	Free.
February 15	13	69.00	Quebec, Canada	Free.
Pebruary 15 Do	13 33	69.00	Quebec, Canadado Wakefield, Canada	Free.
Do	33	165.00	Wakefield, Canada	Free.
Do	22	110.00	ldo	Free.
DoFebruary 16	11 10	55. 00 54. 00	Aylwin, Canada. Quebec, Canada.	Free
Do 10	10	64.00	do	Free.
DoFebruary 18	10	50.00	do. Proulx, Canada.	Free
Do	13	67.00	Quebec, Canada	Free.
Do	10	50.00	Prouly Canada	Free.
<u>D</u> o	10	50.00	do	Free.
Do	13	70.00	. do	Free.
Do February 19	14 12	74.00 64.00	dodo	Free.
Do Installa	14	75.00	do	Free.
Do	10	50.00	do. Proulx, Canada	Free.
Do	10	50, 00	do	Free.
Do February 20	10	50.00	do	Free.
Do	12	68.00	Quebec, Canada	Free.
Do	11	55.00	Aylwin, Canada. Proulx, Canada. Bulovor, Canada.	Free.
February 21 Do	10	50.00 45.00	Rulovor Canada	Free.
Pahrijary 23	10 22 13	110.00	Wakefield, Canada	Free.
Do. March 2	13	65.00	Cascades, Canada	Free.
March 2	10	50.00	Proulx, Canada	Free.
νο	10	50.00	Proulx, Canada do do	Free.
March 4	10	50.00 50.00	do	Free.
March 5	10 10	50.00	do	Free.
Do	11	55. 00	Low Oueber Canada	Free.
Do March 13	10	50.00	Low, Quebec, Canada Proulx, Canada do	Free.
Do	10	50.00	do	Free.
Do	10	50.00	do. do. Brennans, Quebec, Canada. Campbells Bay, Canada. Sully, Canada. Campbells Bay, Canada. Proulx, Canada.	Free.
Do	11	55.00	Brennans, Quebec, Canada	Free.
Do	10	50.00	Campbells Bay, Canada	Free.
March 19 Do	11 10	55.00 50.00	Comphelia Rev Canada	Free.
March 20	10	50.00	Proult Canada	Free.
Do	10	50.00	do.	Free.
Do	10	50.00	ldo	Free.
DoMarch 21	10	50.00	l do	Free.
March 21	10	50.00	do	Free.
Do	11	\$5.00	Sully, Canada	Free.
Do	11	44.00 50.00	Prouls Canada	Free.
Do	10 10	80.00	do	Free.
Do	10	50.00	Brennans, Canada. Proulx, Canada. do. do.	Free.
Do	10	50.00	do	Free.
March 25	10	80.00	do	Free.
Do	10	50.00	dodo	Free.
March 26	10	50.00	dodo.	Free.
	10	50.00	do	Free.
Do		110.00	Ottowa Canada	Free
March 27. March 29.	22 11	110 00 55 00	Ottawa, Canadado	Free.

Tabulated statement showing the date of arrival, quantity, appraised value, country of origin, and duties collected, in the district of Oswegatchie, N. Y., on each importation of pulp wood in the district of Oswegatchie, N. Y., from January 1, 1907, to June 1, 1908—Continued.

1907.	Duty.	Country of origin.	Appraised value.	Quantity.	Date.
Do.   10   50.00   do.					1907.
April   10   50.00  do	Free.	Proulx, Canada			March 30
April   10   50.00  do	Free.	do	50.00		Do
Do.   10   50.00  do   .	Free.	l do	50.00	10	April 1
Do	Free.	do		10	Do
Do	Free.	do	50.00	10	Do
April 3	Free.	do	50.00	10	Do
April 3	Free.	Doucet, Canada	50.00	10	Do
April 3	Free.	Low, Canada		22	Do
April 3	Free.	Karahanna Canada	275.00	22 KK	April 2
Do	Free.			56	Do
Do	Free.	Kazabazua, Canada	110.00	22	April 3
April   10	Free.	Low, Canada	165.00	33	Do
Do.   10   50.00   Doucet, Canada.   Do.   11   55.00   Canada.   Do.   11   55.00   Canada.   Do.   11   55.00   Canada.   Do.   11   55.00   Canada.   Canada.   Do.   Canada.   Do.   Canada.   Do.   Canada.   Do.   Canada.   Canada.   Do.   Canada.   Canada.   Canada.   Do.   Canada.   Cana	Free	Kereberus Canada			Do
Do.   10   50.00   Doucet, Canada.   Do.   11   55.00   Canada.   Do.   11   55.00   Canada.   Do.   11   55.00   Canada.   Do.   11   55.00   Canada.   Canada.   Do.   Canada.   Do.   Canada.   Do.   Canada.   Do.   Canada.   Canada.   Do.   Canada.   Canada.   Canada.   Do.   Canada.   Cana	Free.	Proulx. Canada			April 4
Do	Free.	Doucet, Canada	50,00	10	Do
Do	Free.	Low, Canada	55.00	11	
Do	Free.	Doucet, Canada	50.00	10	
Do	Free.	do	50.00	10	Do
Do	Free.	Proulx, Canada	50.00	10	April 5
Do	Free.	Kazabazua, Canada	55.00	11	Do
Do.	LIGO	Low, Canada	110.00	11	D0
Do.	Free.	Low Canada		22	April 8
Do	Free.	do.	330.00	66	Do
Do.   11   55.00   North Wakefield, Canada   Low, Canada	Free-	Q0	275.00	55	Do
Do.   11   55.00   North Wakefield, Canada   Low, Canada	Free.	do	330.00	90	D0
Do.   11   55.00   North Wakefield, Canada   Low, Canada	Free.	Venosta Canada	110.00	22	Do
April 11.	Free.	Low, Canada	55,00	11	Do
April 11.	Free.	North Wakefield, Canada	275.00	55	Do
April 11.	Free.	Low, Canada	110.00	22	April 10
April 11.	Free.	Farrelton Canada	165.00	33	Do
April 11.	Free.	do	330.00	66	Do
April 12.	Free.	North Wakefield, Canada	385.00	77	April 11
Do	Free.	Low, Canada	165.00	33	D0
April 15. 10 50.00 Do 88 440.00 Do 88 440.00 Do 66 330.00 Do 11 55.00 Do 15 55.00 Do 16 75.00 Do 16 75.00 Do 17 550.00 Do 18 550.00 Do 18 550.00 Do 19 550.00 Do 10 550.00 Do 11 550.00 Do 12 10.00 Do 15 550.00 Do 16 550.00 Do 17 385.00 Do 18 550.00 Do 18 550.00 Do 19 550.00 Do 19 550.00 Do 19 550.00 Do 19 66 330.00 Do 19 66 330.00 Do 19 66 330.00 Do 10 550.00 Do 10 66 330.00 Do 10 60 30.00 Do 10 60 30.00 Do 10 50.00 Do 11 55.00 Do 12 11 55.00 Do 13 165.00 Do 14 220.00 Do 15 55.00 Do 0 24 220.00 Do 0 25 165.00 Do 0 26 165.00 Do 0 26 165.00 Do 0 27 165.00 Do 0 27 165.00 Do 0 28 165.00	Free.	do do	50.00	10	Do
April 15. 10 50.00 Do 88 440.00 Do 88 440.00 Do 66 330.00 Do 11 55.00 Do 15 55.00 Do 16 75.00 Do 16 75.00 Do 17 550.00 Do 18 550.00 Do 18 550.00 Do 19 550.00 Do 10 550.00 Do 11 550.00 Do 12 10.00 Do 15 550.00 Do 16 550.00 Do 17 385.00 Do 18 550.00 Do 18 550.00 Do 19 550.00 Do 19 550.00 Do 19 550.00 Do 19 66 330.00 Do 19 66 330.00 Do 19 66 330.00 Do 10 550.00 Do 10 66 330.00 Do 10 60 30.00 Do 10 60 30.00 Do 10 50.00 Do 11 55.00 Do 12 11 55.00 Do 13 165.00 Do 14 220.00 Do 15 55.00 Do 0 24 220.00 Do 0 25 165.00 Do 0 26 165.00 Do 0 26 165.00 Do 0 27 165.00 Do 0 27 165.00 Do 0 28 165.00	Free.	Doucet, Canada		10	April 13
April 15. 10 50.00 Do 88 440.00 Do 88 440.00 Do 66 330.00 Do 11 55.00 Do 15 55.00 Do 16 11 55.00 Do 17 50.00 Do 18 50.00 Do 18 50.00 Do 18 50.00 Do 19 50.00 Do 19 50.00 Do 10 50.00 Do 10 50.00 Do 11 55.00 Do 12 11 0.00 Do 15 55 50 Do 16 50.00 Do 17 70 70 70 70 70 70 70 70 70 70 70 70 70	Free.	Farrelton, Canada	165, 00	33	Do
Do.   182   440.00  do	Free.	North Wakeneid, Canada	275.00	50	Do
Do	Free Free	Maniwaki Canada	860.00		Do
Do.   66   830.00  do	Free.	do	440.00	88	130
Do	Free.	Farrelton, Canada	110.00	22	Do
Do.	Free.	North Wohofield Consider			Do
Do.	Free.	Brennans, Canada	75.00		Do
Do.	Free.	Burbridge, Canada.	550.00	110	April 16
April 20. 11 65.00 do	Free.		110.00	22	Do
April 20. 11 65.00 do	Free.	Gracenald, Canada	55.00	111	D0
April 9. 11 65.00 dodododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododo	Free.	Farrelton, Canada			April 18
Do.   77   385.00   Gracefield, Canada   Canada   Do.   Do.   10   50.00   Froulx Canada	Free.	LOW. Canada	55.00	11	April 19
Do.   77   385.00   Gracefield, Canada   Canada   Do.   Do.   10   50.00   Froulx Canada	Free.	do	55.00	11	April 20
Do.   77   385.00   Gracefield, Canada   Canada   Do.   Do.   10   50.00   Froulx Canada	Free.	Graceneid, Canada		22	Do
Do.   22   110.00   do.   Do.   Do.   23   165.00   Do.   23   165.00   do.   Do.   24   220.00   do.   Do.   23   165.00   Do.   23   165.00   do.   Do.   Do.   23   165.00   do.   Do.   Do.   23   165.00   do.   Do.   24   220.00   do.   Do.   25   275.00   do.   Do.   Do.   26   275.00   do.	Free.	Gracefield, Canada	385.00	77	Do
Do.         10         50.00         Proulx Canada           April 22         33         165.00         Gracefield, Canada           Do.         44         220.00         do           April 23         11         55.00         do           Do.         11         55.00         do           Do.         23         165.00         do           Do.         44         220.00         do           April 25         55         275.00         do	Free.	l do	110.00	22	Do
D0. 35 105.00d0	Free.	Proulx. Canada	50.00	10	Do
Do.     44     220.00     do       April 23     11     55.00     do       Do.     11     55.00     do       Do.     23     165.00     do       Do.     44     220.00     do       April 25     55     275.00     do	Free.	Graceneld, Canada		33	Aprii 22
Do	Free.	do		44	Do
Do	Free.	do	55.00	ii	April 23
Do 23 166.00do	Free.	do	55.00	11	Do
April 25. 55 275.00do	Free.	do	165.00	23	Do
Do	Free.	do		44 85	April 25
Do	Free.	do	220.00	44	Do
	Free.	do	220.00	44	Do
De	Free.	do			D0

Tabulated statement showing the date of arrival, quantity, appraised value, country of origin, and duties collected, in the district of Oswegatchie, N. Y., on each importation of pulp wood in the district of Oswegatchie, N. Y., from January 1, 1907, to June 1, 1908.—Continued.

Date.	Quantity.	Appraised value.	Country of origin.	Duty.
1907.	Cords.			
April 25	. 11	855.00	Gracefield, Canada	Free.
Do	11	35.00 330.00	dodo	Free.
Do	. 66 33	165.00	do.	Free.
April 28	200	110.00	do	Free.
April 26	22 22 83 44	110.00	do	Free.
Do	23	165.00	do	Free.
Do	44	220.00	do	Free.
Do	. 55	275.00	do	Free.
Do	66	830.00	do	Free.
April 27	. 11	55.00	do	Free.
Do	. 11	55.00	do	Free.
Do	11	85.00	do	Free.
Do	22	110.00	do	Free.
Do	88	440.00	do	Free.
Do	. 11	<b>5</b> 5. 00	do	Free.
April 29	11	55.00 /55.00	do	Free
Do			do	Free.
Do	11 11	55.00 55.00	dododo	Free.
Do	110	550.00	do	Free.
May 1 Do May 2	66	230.00	Campbells Bay, Canada	Free.
Do	1 11	55.00	do	Free.
May 3	ii	55.00	Gracefield Canada	Free
May 6	ii	55.00	Campbells Bay, Canada	Free.
Do	ii	55.00	Campbells Bay, Canada. Gracefield, Canada.	Free.
Do	. 33	165.00	Campbells Bay, Canada	Free.
May 8. Do	. 11	55.00	l de	Free.
Do	22	110.00	Ottawa, Canada	Free.
Mav 9	. 66	330.00	Ottawa, Canada Campbells Bay, Canada	Free-
Do	. 11	55.00	ldo	Free.
May 11	11	55.00	do. Kazubazua, Canada	Free-
May 13 May 15	11	55.00	Kazubazua, Canada	Free-
MBY 15	83 22	165.00	do	Free-
Do Do	11	110.00 55.00	dodo.	Free-
Do	111	55, 00	do	Free-
Do	22	110.00	do. Wylle, Canada. Campbells Bay, Canada.	Free-
May 16	22 10	40.00	Wylie, Canada	Free-
Do	33	165.00	Campbells Bay, Canada.	Free-
Do	33 22	110.00	Waltham, Canada	Free-
Do	11 22	55.00	Campbells Bay, Canada	Free-
May 17	22	110.00	dodo	Free-
Do	11	55.00	do	Free-
May 20	22	110.00	do	Free-
Do	33	165.00	Gracefield, Canada	Free-
Do	33	165, 00 55, 00	Campbells Bay, Canadado	Free-
May 21	33	165.00	Kazubazua, Canada.	Free-
May 23	10	40.00	Wylie, Canada	Free
May 24	22	110.00	Wylie, Canada	Free-
Do	55	275.00	l do	Free-
Do.	ĩ	55, 00	Wakefield, Canada	Free-
Do	ii	55, 00	i do	Free-
Do	55	275.00	Kazubazua, Canada. Camphells Bay, Canada. Bass Lake, Canada.	Free.
May 25. May 27. Do	11	55.00	Campbells Bay, Canada	Free.
May_27	10	40.00	Bass Lake, Canada	Free-
Do	10	40.00	[do.,	Free-
Do	. 10	40.00	l do	Free.
Do	10	40.00	do	Free-
Do	10	40.00	Chark River, Canada	Free-
Do	10	40.00	do	Free.
Do	10 10	40, 00 40900	Rest Lake Conede	Free.
Do	55	275. 00	Bass I.ake, Canada	Free-
Do June 1	44	220. 00	do	Free.
Do	33	165.00	do	Free.
Do	l ñ	55.00	do	Free-
Do June 4	83	165.00	Gracefield, Canada	Free-
Do	11	55. 00	Gracefield, Canada Camphells Bay, Canada	Free
Do June 7	11	55, 00	Kazubazua, Canada	Free-
DΛ	. 55	275.00	do	Free.
June 14	11	55.00	Wakefield, Canada	Free.
Do	11	55.00	Sullys, Canada	Free.
June 19	22	110.00	Gracefield, Canada	Free.
Do	11	55. 00 55. 00	Wakefield Canada. Sullys, Canada.	Free.

Tabulated statement showing the date of arrival, quantity, appraised value, country of origin, and duties collected, in the district of Oswegatchie, N. Y., on each importation of pulp wood in the district of Oswegatchie, N. Y., from January 1, 1907, to June 1, 1908.—Continued.

Date.	Quantity. Appraised value.		Country of origin.	Date
1907.	Cords.			
une 21	11	\$55.00	Wakefield, Canada	Free.
une 22	11	85, 00	Low, Canada Gracefield, Canada	Free.
une 24	11	55, 00	Gracefield, Canada	Free.
une 26	33	165.00	do Wakefield, Canada	Free.
uly 1	ĩĩ	55, 00	Wakafield Canada	Free.
uly 3	ii	55.00	Venesta Canada	F-00-
Do		55.00	Walcofold Comede	Free.
Do	11	80.00	wakeneid, Canada	Free.
uly 5	11	55.00	Q0	Free.
Do	11	55.00	Graceneid, Canada	Free.
11y 8	11	55.00	Wakefield, Canada	Free.
ıly 24	11	55.00	Gracefield, Canada	Free.
Do	11	55.00		Free.
ugust 1ugust 6	12	79.00	Quebec, Canadado.	Free.
ugust 6	13	83.00	do	Free.
Do	12	78.00	do.	Free.
Do	10	68.00	do	Free.
Do	12	78.00	do	Free.
Do	10	40.00	do	
		40.00	do	Free.
Do	10	40.00	I DISUES, CADAGA	Free.
Do	10	40.00	do	Free.
ugust 9	10	40.00	dodo	Free.
ugust 12	11	55.00	Gracefield, Canada	Free.
ugust 15ugust 17	22	110.00	do. Quebec, Canada.	Free.
ugust 17	102	69.00	Quebec, Canada	Free.
Do	1211	81.00	do	Free.
Do	22**	110.00	Gracefield, Canada	Free.
ugust 19	13	93.00	Quebec, Canada	Free.
Do	11	55.00	Generald Canada	Free.
Do	22	110.00	Gracenerd, Canada	
Do			do. Quebec, Canada	Free.
ugust 20	14	95.00	Quepec, Canada	Free.
Do	11	72.00	do	Free.
ugust 21	33	165.00	Gracefield, Canada	Free.
ugust 22	12	79.00	Quebec, Canada	Free.
ugust 23	11	55.00	Gracefield, Canada	Free.
ugust 24	11	75.00	Quebec, Canada	Free.
11911st 26	22	110.00	Gracefield Canada	Free.
nenst 27	īī	74.00	Quebec, Canadado.	Free.
ugust 27 Do	14	95.00	do.	Free.
Do	ii	72.00	do	
D		85.00		Free.
Do	18		do	Free.
Do	13	89.00	do	Free.
Do	10	66.00	do	Free.
Dougust 28	14	91.00	do	Free.
Do	13	84.00	do	Free.
ugust 29	12	77.00	do	Free.
Do	13	83, 00	do	Free.
ugust 30	ii	73.00	do	Free.
Do	18	84.00	do	Free.
Do	13	87.00	do	Free.
Do		85.00		Free.
optember 2	13 12	40.00	Chalk Bluer Canada	
			Chalk River, CanadaQuebec, Canada	Free.
Do	11	71.00	Quebec, Canada	Free.
eptember 3	14	90.00	do	Free.
Do	18	83.00	do	Free.
<u>D</u> o	15	94.00	do	Free.
Do	12	80.00	do	Free.
Do	10	67.00	do	Free.
Do	12	78.00	do	Free.
Do	14	90.00	do	Free.
Do	13	87.00	do	Free.
Do	18	85.00	dodo	Free.
Do	10	76.00		
Do	ij		do	Free.
Do	11	76.00	do	Free.
Do	11	74.00	do	Free.
Do	12	79.00	do	Free.
spiember 5	14	90.00	do	Free.
Do	12	78.00	do	Free.
Do	12	83, 00	do	Free.
Do	14	90.00	do	Free.
Do	12	81.00	do	Free.
Do	12 22	110.00	do	Free
			Moreta Wakunda, Canada	
Do				
Do	13	83.00	Quebec, Canada.	Free.
Do	13	83.00	do	Free.
Do Dosptember 7	13 12	83.00 82.00	do	Free.
Do	13	83.00	do	Free.

Tabulated statement showing the date of arrival, quantity, appraised value, country of origin, and luties collected, in the district of Oswegatchie, N. Y., on each importation of pulp wood in the district of Oswegatchie, N. Y., from January 1, 1907, to June 1, 1908—Continued.

Date.	Quantity.	Appraised value.	Country of origin.	Duty.
1907.	Cords.			
September 7	14	<b>\$290.00</b>	Quebec, Canada	Free.
September 9	12	82.00	ldo	Free.
Do	13 22	86.00 110.00	North Wakefield, Canada	Free.
Do September 10	15	95.00	Quebec, Canada	Free.
Do	1 4	<b>57.00</b>	do.	Free. Free.
<u>D</u> o	10	64.00	ldo	Free.
Do	14	91.00	do. Chalk River, Canada	Free.
September 11	10	40.00	Chalk River, Canada	Free.
September 12	13	85.00	Quebec, Canada	Free.
Do	13 12	88. 00 77. 00	do	Free.
Do Do	13	89.00	do	Free.
Do	14	91.00	do	Free.
Do	13	84.00	do	Free.
Do	33 12	165.00	North Wakefield, Canada	Free.
September 13 September 14	12	76.00 100.00	. do North Wakefield, Canada Quebec, Canada St. Gabriels, Canada	Free.
September 14	20 14	73.00	St. Gabriels, Canadado.	Free.
Do	18	90.00	do	Free. Free.
Do	8	52,00	Quebec Canada	Free.
Do September 18	14	70.00	St. Gabriels, Canada	Free.
Do	12	60.00	Quebec, Canada. St. Gabriels, Canadado.	Free.
Do	16	80.00	do	Free.
Do	15 <u>1</u> 14 <u>1</u>	78.00 73.00	dodo	Free.
Do	197	95.00	do	Free.
Do Do	19 15	100.00	doQuebec, Canada	Free.
Do	11	<b>5</b> 5. 00	ldo	Free.
Do	14	73.00	I St. Gantiels Canada	Free.
Do	16 22	80.00 110.00	do North Wakefield, Canada	Free.
Do	14	70.00	Ouebee Canada	ree. Free.
Do	22	110.00	Quebec, Canada North Wakefield, Canada.	Free.
Beptember 23	17	85.00	St. Gabriels, Canada	Free.
September 28	22 22	110.00	St. Gabriels, Canada. Low, Canada do St. Gabriels, Canada	Free.
Do	22	110.00	do	Free.
September 30	15 18	75.00 90.00	St. Gabriels, Canadado	Free. Free.
October 1	131	66.00	do	Free.
October 2	104	18 00	Ottawa, Canada	Free.
Do	22	110.00	Low, Canadast. Gabriels, Canada	Free.
Do	14	75.00	St. Gabriels, Canada	Free.
October 3	22 22	110.00	Low, Canada	Free.
Do	10	110.00 40.00	do	Free. Free.
October 7	16	80.00	Thistles, Canada St. Gabriels, Canada	Free.
Do	15	78.00	do	Free.
DoOctober 8	13	65.00	do	Free.
October 8	15	77.00	do	Free
Do Do	12 13	62. 00 65. 00	dodo	Free. Free.
Do	15	75.00	do	Free.
Do	16	83.00	do.	Free
Do	15	75.00	do	Free.
Do	. 11	57.00	ldo	Free.
Do Do	14	73.00 55.00	do	Free.
October 9	13	68.00	St. Gabriels, Canada	Free. Free.
Do	13	65.00	ldo	Free.
DoOctober 10	20	100.00	do	Free.
October 10	13	65.00	do	Free
Do	10	40.00	Bass Lake, Canada	Free.
Do	14 15	220.00 75.00	Low, Canada St. Gabriels, Canada do do do	Free. Free.
Do October 11	16	79.00	dodo	Free.
October 12	12	62.00	do	Free.
October 15	15	75.00	do	Free.
Do		75.00	do	Free.
Do	13 <u>1</u>	68.00 98.00	do	Free. Free.
DoOctober 16	17	83.00	do	Free.
Do	16	75.00	do	Free.
DoOctober !8	13	63.00	do	Free.
October !8	12	63.00	dodododododo	Free.
Do	10	49.00	'ao	Free.

Tabulated statement showing the date of arrival, quantity, appraised value, country of origin, and duties collected, in the district of Oswegatchie, N, Y., on each importation of pulp wood in the district of Oswegatchie, N. Y., from January 1, 1907, to June 1, 1908—Continued.

Date.	Quantity.	Appraised value.	Country of origin.				
1907.	Cords.						
October 22	19	\$95 00	St. Gabriels, Canada	Free.			
October 24	13	65.00	ldo	Free.			
Do	15	75.00	do	Free.			
October 25	15	76.00	ldo	Free.			
Dc	11	55:00	do	Free.			
Do	15	74.00	do	Free.			
ctoher 26	14	71.00	do	Free.			
Do	18	91.00	dododo	Free.			
ctober 29	15	78.00	do	Free.			
Do.	· 15	75.00	do	Free.			
Do ctober 30	12	59.00	do	Free.			
Da	15	14.00	do	Free.			
ctoher 31	104	53.00	do	Free.			
ovember 2	123	80.00	do. Clenks, Canada	Free.			
Do	91	49.00	St Gabriels, Canada				
		71.00	Ot \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Free.			
Do	14	71.00	do	Free.			
Бо	14	78.00	do. Clenks, Canada	Free.			
Do Doovember 4	12	80.00	Clenks, Canada	Free.			
ovember 4	16	80.00	Valcartier, Canada	Free.			
Do	19	99.00	do	Free.			
Do	15	85.00	Quebec, Canada	Free.			
Do	19	80.00	St. Gabriels, Canada	Free.			
Doovember 6	181	94.00	do Quebec, Canada St. Gabriels, Canada do do	Free.			
ovember 7 ovember 13	14	78.00		Free.			
ovember 13.	14	70.00	Valcartier, Canada	Free.			
Do	18	93.00	Valcartier, Canada	Free.			
Do	10	10.00	Valcartier, Canadadodo.	Free.			
Doovember 14	15	76.00	do	Free.			
Do	16	83.00	do	Free.			
ovember 16	19	94.00	do	Free.			
De De	14	70.00	do	Free.			
Doovember 18	1 12						
Ovemour 19	14	70.00	do	Free.			
Do	13	66.00	do	Free.			
Do	18	93.00	do	Free.			
ovember 19	11	<i>5</i> 6.00	do	Free.			
Do	14	73.00	do	Free.			
ovember 20	14	71.00	do St. Gabriels, Canada. Valcartier, Canada. St. Gabriels, Canada.	Free.			
ovember 23	14	78.00	St. Gabriels, Canada	Free.			
Do	15	75.00	Valcartier, Canada	Free.			
Do	18	98.00	St. Gabriels, Canada	Free.			
Do	14	78.00	do	Free.			
Do	18	93, 00	Valcartier, Canada	Free.			
Doovember 26	91	48.00	do	Free.			
Do	12	63.00	do	Free.			
20		UG. 00		1.00			
1906.	1	i		ĺ			
nnnere 11	16	56,00	Black River, Canada	Free.			
	1 14	42.00	do				
anuary 11anuary 17anuary 22	14 14	42.00	dodo	Free.			
<b></b> ₩	4		dodo				
Doanuary 23 anuary 25	1 10	48.00		Free.			
шину 23	128	39.00	do	Free			
MUNITY 20	18 14 20 14	42.00	do	Free			
Do	20	80.00	Warren, Canada. Black River, Canada. do	Free.			
anuary 27	14	42.00	BIRCK KIVET, CADAGA	Free.			
anuary 80	14	42.00	go	Free.			
eoruary 3	13	89.00	do	Free.			
ebruary 11	18	54.00	do	Free.			
ebruary 21	5	28.00	Low, Canada	Free.			
ebruary 25	14	70.00	do	Free.			
farch 7	14	35.00	Black River, Canada	Free.			
farch 9	1 14	85.00	do	Free.			
larch 11	10	25.00	do	Free.			
Carch 13	10	25.00	do	Free.			
farch 18.	1 10	30.00	do	Free.			
farch 19	12 12	30.00	do	Free.			
farch 23	12	30.00	do	Free.			
raicu 40	12	80.00	do	Free.			
farch 25	12	80.00	do				
Carch 31. April 2. April 15.	12	31.00	dodo. Clarendon, Canada	Free.			
.pru 2	12	81.00		Free.			
rbun 19	11	40.00	Clarendon, Canada	Free.			
DO	. 11	40.00	do	Free.			
<b>42y</b> 16	. 10	50.00	do. Petewawa, Canada.	Free.			
Do	. 10	50.00	do	Free.			
	L	1	_i	ı			
Total	8,760	44, 143	-1	1			

## PORT OF PLATTSBURG, N. Y.

Ground wood pulp, chemical wood pulp, and printing paper imported from Canada into the District of Champlain, Port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908.

Date of arrival.	Quantity.	Appraised value.	Duty.	Coun- tervail- ing duty.	Date of arrival.	Quantity.	Appraised value.	Duty.	Coun- tervail- ing duty.
1907. Van. 2	Pounds.			_	1907.	Pounds.			
Jan. 2	51, 137	\$390.00	842. 61	\$3.46	Apr. 6	35,858	\$359.00	\$29.88	\$1.39
4	36, 250 65, 212 17, 568 30, 090	178, 00 225, 00	30. 21 54. 34		8	26,086 23,365	124.00 90.00	30. 07 19. 47	
7	17.568	106.00	14.64	2.20	8	26,805	108.00	22.34	
11	80,090	182.00	25.08	3.76	8	65,480	645.00	<b>54</b> . 57	2.4
12 12	1 40.770	367. 00 199. 00	33. 98		9	55,186 38,925	887.00	45. 99	
14	39, 725 115, 368	1.154.00	33. 10 96. 14	4.33	9	38,925 42,858	135.00 214.00	32. 44 35. 72	
21	115, 368 20, 396	1, 154. 00 213. 00	17. 00		10	35,858	359.00	29. 88	1.38
14 21 21 22 22 22 22 22 23	45, 485	222, 00	87. 90		11	71,716	502.00	<b>59</b> . 76	2.6
22	42,753	385. 00 450. 00	35. 63 33. 38		11	39,833	135.00	33. 19 56. 26	
22	40,055 143,432	1,434.00	119. 53	5.38	ii	67,513 21,849	270.00 90.00	18 21	
22	143, 432 67, 717	556.00	56. 43	5. 19	13	30,000	135. 00	18. 21 25. 00	4.2
28	30,575	183.00	25, 48	[ 3.82	15	37,565	1 135, 00 1	31. 30	
30	30, 262	182. 00 364. 00	25. 22 50. 56	3. 78 7. 58	15 15	50,970	255.00	42. 48 53. 14	
Feb. 1	60,772 43,854	395.00	36. 55		15	63,768 20,925	225. 00 279. 00	<b>59</b> . 10	
- 4	20,880	395. 00 125. 00	17. 40	2 61	15	74,242	297.00	61. 87	
7	31, 181	312.00	25. 98	1. 17	15	23.627	90.00	19.69	
11	39,802	358.00	33. 17		15	183,968	1,840.00 198.00	153. 31	6.90
11 13	156, 710 45, 033	1,567.00 506.00	130. 59 37. 53	5. 88	16 16	52,405 36,312	131.00	43. 67 30. 26	
13	31,342	313.00	26. 12	1. 18	16	59,035	203.00	49. 20	
21	38,803	349.00	32, 34		18	66,071	261.00	<b>55.06</b>	
25	28, 200	141.00	23. 50		18	21,957	90.00	18.30	4.8
Mar. 4	39, 518 52, 939	375. 00 476. 00	32. 93		19 20	30,000 21,971	135. 00 243. 00	25. 00 59. 98	1.8
8	32, 809	295. 00	44. 12 27. 34		20	40,435	135.00	33. 71	
8	22,673	204.00	18, 89		22	79,844	270.00	66. 54	
9	29, 236 27, 859	263, 00	24. 36 23. 22		22	50,537	180.00	<b>42</b> . 11	
11	27,859	313.00	23. 22		22	40,228	162.00	33. 52	
11 12	28, 961 25, 740	377. 00 154. 00	24. 13 21. 45	3. 22 2. 56	22	24,179 26,792	99.00 108.00	20. 15 22. 33	• • • • • • •
18	20,500	123.00	17. 08	2.56	23 23	22,668	90.00	18. 89	
19	61, 166	550.00	50. 97		24 25	55.311	180.00	46 00	
20	85,759	772.00	71. 47 28. 75		25 25	24,959	99.00	20. 80 18. 72	
20	34, 496 26, 913	373.00 108.00	22. 43		26	22,465 19,375	90.00 72.00	16. 15	
21	40,683	203.00	33, 90		29	46,237	180.00	38. 53	
22	40, 443	202.00	33. 70 113. 40		29	22.079	90.00	18. 40	
23	136,080	1,472.00 690.00	113. 40 63. 92		29	33,500 33,350	334. 00 334. 00	27. 92 27. 79	2.4
23	76, 703 117, 180	1,366.00	97. 65		29 29	40,086	135.00	33. 41	
25	26,913	108.00	22. 43 81. 23		29	62.138	135, 00	35. 12 57. 77	
25	97, 470 35, 280	1, 137. 00	81. 23		29	69,328	225.00	57. 77	
25	35, 280	412.00 788.00	29. 40 72. 94		29 29	18,280 45,959	72. 00 189. 00	15. 23 38. 50	• • • • • • •
20 27	87, 523 48, 607	198.00	40. 51		29	51,574	207.00	42.98	
28	35, 280	412.00	29. 40		29 29	36,685	382 00	30. 57	2.6
19 20 21 21 23 23 25 25 27 28 29 30	35, 280 71, 716	932.00	59. 76	2.69	30	29,000	117.00	24.17	<b></b>
29	23, 596	90.00	19. 66		May 1	34,391	144. 00 90. 00	28.66 23.26	
30	81, 136 37, 086	406.00 124.00	67. 61 30. 91		May 1	27,915 45,131	171.00	37. 61	;······
20	58,733	207. 00	48. 94		2	73,370	763.00	61, 14	5.2
30	44, 545	180, 00	48. 94 37. 12		3	30,390	228.00	25. 33	4.00
Apr. 1	65,178	225.00	54. 32		3	32,000	232.00	26.66	4.00
1	37,730 47,482	124.00 189.00	31. 44 39. 57		2	23,907 42,000	90.00 135.00	19. 92 35. 00	•••••
i	70,614	279.00	<b>5</b> 8. 8 <b>5</b>		4	23,382	90.00	19. 49	
1	74,469	288.00	62.06		6	44,843	108.00	<b>3</b> 7. 37	
1	1 38.711	135.00	32. 43 33. 18		6	88,971	293.00 113.00	74.14	• • • • • • •
1	39,813 46,097	199. 00 180. 00	33. 18 32 41	·····	6 8	33,337 22,626	90.00	27. 78 18. 86	
1	28.431	108.00	38. 41 23. 69		. 8	134,400	672.00	112.00	16.80
1	38,874	135.00	32. 40	[ l	. 8	24,000	144.00	20.00	
1	22,809	217.00	19.01		10	50,478	198.00	42.07	
2	31,979 22,698	108.00	26.65 18.02		10 10	134,400 60,685	672.00 556.00	112.00 80.57	16.80 5.60
	35,280	90. 00 399. 00	18. 92 29. 40		11	83,303	417.00	69. 42	0.00
2 3 3 8	24,752	99.00	20.63		13	35,240	381.00	29, 37	
3	32,823	113.00	27. 35	<u></u>	13	46,980	563.00	39. 15	2.0
8	71,716	717.00	<b>59</b> . 76	2.69	13	42,220 77,216	422.00 270.00	35. 18 64, 35	. 2.0

#### PORT OF PLATTSBURG, N. Y.—Continued.

Ground wood pulp, chemical wood pulp, and printing paper imported from Canada into the District of Champlain, Port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

Date	<b>L</b>	Quantity.	Appraised value.	Duty.	Coun- tervail- ing duty.	Date of arrival.	Quantity.	Appraised value.	Duty.	Coun- tervail- ing duty.
1907. May	_	Pounds.				1907.	Pounds.			
May	18	49,473 33,600	\$198.00	\$41.23	84.20	June 6	37, 441	\$124.00	\$31.20	
	13 18	33,600 30,485	168. 00 229. 00	28.00 25.40	3.81	7	33,600 49,218	168.00 198.00	28.00 41.02	\$4.20
	13	30,000	135.00	25.00	5.37	7	75,300	259.00	62.75	8.03
i	14 15	53,925 23,575	374.00 99.00	44. 94 19. 65	6.86	10	111,592 43,053	1,116.00 180.00	92. 99 35. 88	8.03
	15	33,600	168.00	28.00	4.20	10	38, 592	135.00	32. 16	
	15 15	33,600	168.00 381.00	28.00 29.37	4.20	10 10	49, 787 34, 620	169.00 415.00	41. 49 28. 85	
1	15	35,240 93,705	984.00	78.09	3. 51	10	75, 162	288.00	62, 64	
	15	60,000	270.00 328.00	50.00 26.03	12.36 1.17	10 10	41, 470 28, 800	431.00 173.00	34. 56 24. 00	
	16 17	31,235 212,760	1.489.00	177. 30	7.98	11	37, 597	135.00	31 33	
	18 I	65,514	261.00 189.00	54. 60 39. 07		11 12	1 100,800	504.00	84. 00 26. 78	12.60 4.02
	18 18	46,888 50,528	207.00	42. 11		12	32, 130 108, 676 22, 757	193. 00 338. 00	90. 56	2.02
j	18	50,528 27,420 51,725	90.00	22.85	5. 21	12	22,757	90.00 293.00	18.96	16.35
	20	61,725 22,800	402.00 144.00	43. 11 19. 00	0.21	12 12	65,000 28,800	173.00	54. 17 24. 00	10.35
	20	20.000	145.00	16.67		14	61.404	368.00	51. 17	7.68
	20 20	37,663 27,246 57.600	135.00 108.00	31. 39 22. 71		14 14	82, 110 36, 814	493.00 135.00	68. 43 30. 68	10.26
	20	57.600	346.00	48.00		15	24, 931	99.00	20.78	
	20	64,585 35,090	520.00 365.00	53. 82 31. 77	6. 13	15 15	51,405 73,864	198.00 248.00	42.84 61.55	
	22	47,536	189.00	39. 61		17	70,686	424.00	58, 91	8.84
	22	55,466 26,027	216.00 108.00	46. 22 21. 69		17 17	19,488 48,529	72.00 169.00	15. 41 40. 44	
	22	64,497	214.00	53. 75 32. 83		17	50,739	180.00	42. 28	
	22	39,398	135.00	32. 83 28. 00	4. 20	18	45, 240	453.00	37. 70	3.26
	23	33,600 54,180	168. 00 586. 00	45. 15	`	18 18	33,600 28,800	168.00 173.00	28.00 24.00	43
3	24	69.368	694.00	45. 15 57. 81	4. 99	18	34.684	361.00	24.00 28.90	2.50
	18 18 18 18 20 20 20 20 20 20 20 22 22 22 22 22 22	34, 620 48, 438	374.00 169.00	28. 85 40. 37		19 19	56, 406 30, 702	338.00 184.00	47. 01 25. 59	7.05 3.84
	25	48, 438 77, 212	297.00	64. 34 41. 71		19	56.068	216.00	46.72	
	25	50, 053 28, 620	169. 00 226. 00	41.71 23.85	2.06	19 19	38,559 67,200 57,500	124.00 336.00	32. 13 56. 00	. 85
	27	71,052	279.00	23. 85 59. 21		21 22	57,500	258.00	47.92	11.54
	27	37, 127 37, 234	124.00 124.00	30. 94 31. 03	·	22	30,702 31,860	184.00 175.00	25. 59 30. 53	3.84
	28	34, 327	113.00	28. 61		24	63,309	214.00	50.01	
	28	08, 317	270.00 108.00	56. 93 22. 09		24 24	64,856 40,201	214.00 162.00	54.05 33.50	
	28	26, 504 57, 500	259.00	47. 92	14.06	24	50, 262	198.00	41.89	
	20	45, 827	180.00	38. 19 22. 25		24	55,357	207.00 349.00	46. 13 86. 09	
	31	26, 704 33, 600	90.00 168.00	28.00	4. 20	24 24 24	103,313 54,557	216.00	45.46	
	31	25, 080	171.00	20.90		24	54,557 71,972 30,842	288, 00	45. 46 59. 98 25. 70	
	31	35, 944 27, 079	124.00 108.00	29. 95 22. 57		24 24	67,500	101. 00 304. 00	56, 25	17.05
3	31 31	68, 262	261.00	56. 89 20. 77		25 25	59,995	203.00	50.00	
June :	31	24,922	99.00 288.00	20. 77 60. 50	;	25 26	24,000 117,800	108.00 707.00	20. 00 98. 17	14.73
<i>3</i> CLD-0	1	72, 602 57, 600	283.00	48.00	7.20	26 26	117,800 56,406 87,108	338.00	47.01	7.05
	3	48, 677 40, 588	198. 00 135. 00	40. 56 33. 82		27 27	87,108 35,600	534.00 415.00	72. 59 29. 68	10.89
	3	63, 395	225.00	52.83		27	33,600	168,00	28.80	.43
	3	62, 687	214.00 124.00	52. 24 20. 76		27	100,800 31,816	504. 00 342. 00	84.00 26.51	1.28
	333333	36, 909 47, 322	189.00	52. 24 30. 76 39. 44		27 27 28 29 29 29	39,822	135.00	33. 19	
	3	91,320	369. 00 336. 00	76. 10	8. 40	29	81,976 80,548	270.00 315.00	68. 31 67. 12	
	4	67, 200 100, 817	605.00	56.00 84.01	12.60	July 1	18, 169	72.00	15. 14	
	4	62, 118	373.00	51.77	7.76	1 2	56, 212 35, 700	\$50.00	46.84 29.75	4.46
	5	31, 149 33, 600	101.00 168.00	25. 96 28. 00	4. 20	3	109,773	214.00 365.00	29. 75 91. 48	5.50
	š	100,800	504.00	84, 00	12.60	1 3	1 30 702	179.00	25. 59	3.84
	5	122, 808 108, 528	737. 00 651. 00	102. 34 90. 44	15. 35 13. 57	3	32,844 30,702 93,322	197.00 184.00	27.37 25.59	4.11 3.84
	55566	108, 528 80, 702 27, 514 79, 128	184.00	25, 59	3.84	4	93,322	315, 00	77.77	
	6	27,514	108.00 324.00	22. 93 66. 94		4	30,702 30,702	179.00 184.00	25. 59 25. 59	3.84

## PORT OF PLATTSBURG, N. Y.—Continued.

Ground wood pulp, chemical wood pulp, and printing paper imported from Canada into the District of Champlain, Port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

Date of arrival.	Quantity.	Appraised value.	Duty.	Coun- tervail- ing duty.	Date of arrival.	Quantity.	Appraised value.	Duty.	Countervailing duty.
1907.	Pounds.	***	***		1907. July 29	Pounds.			
July 5	27,572	\$90.00 315.00	\$22.98 65.26	•••••	July 29 30	168,000 39,103	\$840,00 124.00	\$140.00 32,59	\$2.13
5	78,307 44,385 126,074	158.00	36. 99		31	39, 103 53, 621	180.00	44.68	
5 6	126,074 31,816	628.00 342.00	105. 02 26. 51	\$28.66 3.98	Aug. 1	155, 904 124, 723	1,091.00 873.00	129. 92 103. 94	5. 85 4. 68
8 8	33,600	168.00	28.00	.43	1	31.611	221.00	26. 34	1.19
8 8	53,004	180.00 506.00	44. 17 117. 78		1 2	57,500 45,240	259.00 452.00	47. 92 37. 70	15.27 3.26
8	141,339 57,941	216.00	48, 28		2	93,018	315.00	77.52	
8 8	69,994	279.00 90.00	58. 33 19. 16	• • • • • • • • • • • • • • • • • • • •	2 2	26,552	90.00 248.00	22. 13 60. 70	• • • • • • • • • • • • • • • • • • • •
8	22,995 37,909 18,900 136,249	124.00	31. 59	2.36	3	72,835 82,970 * 169,218	281.00	69, 15	
8	18,900	118.00 954.00	15. 75 113. 54	2.36 5.11	5 5	169,218 89,967	1,015.00 304.00	141. 02 74. 97	21. 15
8	1 00.000	293.00	54.17	16.58		32,736	101.00	27.28	
10	216, 260 58, 422	2,271.00 205.00	180. 22 48. 69	8. 11	6	90,084 22,620	303.00 226.00	75. 07 18. 85	L 63
10	22, 122	90.00	18.94		8	60,000	270.00	50.00	14.11
10 11	27, 228 88, 865	171.00 622.00	22.69 74.05	3. 40 3. 33	8	47,417 26,484	158.00 108.00	39. 51 22. 07	·····
11 11	1 31.516	126.00	26, 26	3.00	9	26, 484 125, 288 74, 991	877.00	104. 41 62. 49	4.70
11 11	29,826	117.00 477.00	24.86 106.03		10	74,991	248.00 347.00	62. 49 28. 90	2.50
12	127, 233 67, 200	337.00	56.00	.85	10	34,684 38,400	230.00	32.00	2.50
12	129, 483 67, 443 67, 200	464.00 225.00	107. 90 66. 20		12 12	44,000	220.00 169.00	36. 67	
15 15	67, 200	336.00	56.00	. 85	12	49,016 36,915	135.00	40. 85 30. 76	
15	46, 160	499.00	38. 47		13	1 124.723	873.00	103.94	4. 68
15 15	34,880 22,620	377. 00 226. 00	29. 07 18. 85	1.63	14	63, 584 30, 914	234. 00 309. 00	52. 99 25. 76	2.23
15	22,620 33,600 59,080	168.00	28.00	. 43	14	213,8/6	2.021.00	178. 31	19.69
15 16	24, 180	364.00 226.00	49. 23 20. 15	3. 79 1. 74	15 15	94,926 43,000	320.00 210.00	79. 11 <b>35</b> . 83	
16	84,684	572.00	70. 57	12.98	16	37,553	124.00	31. 29	
17 17	45, 910 188, 000	254.00 940.00	38. 26 156. 67	7. 95	16 17	30, 420 94, 833	192.00 664.00	25. 35 79. 03	3.80 3.56
17	86, 231	293.00	71.86		19	96,042	351.00	80.04	
18 18	130, 959 46, 160	917.00 607.00	109. 13 38. 47	4.91	21 21	56, 406 39, 984	338.00 240.00	47. 01 33. 32	7.05 5.00
18	66, 441 30, 702	214.00	55.37		21	39,984 149,744	749.00	33. 32 126. 79	3.96
19 19	30,702	184.00. 101.00	25. 59 25. 59	3.84	22 22	55, 042 51, 570	572.00 325.00	45. 87 42. 97	3.96 6.44
19	197,116	2,070.00	164. 26	7. 23	22	148,512	891.00	123. 76	18. 56
20 20 20 22	54,860 38,120	347. 00 135. 00	46. 12 31. 77	5. 43	22	40, 212 51, 578	135. 00 325. 00	33. 51 42. 98	6.45
20	32, 180	241.00	26. 82 116. 77		23 23	156, 173	1 1.093.00 1	130. 14	5.86 5.54
22	140, 120 62, 792	1,515.00 440.00	116.77 52.33	2. 35	23 23	147, 813 36, 778	1,035.00 124.00	123. 18 30. 65	5.54
22	78, 428 98, 770	270.00	65. 36	2.00	23 23	38,148 38,240	135.00	31. 79	
22 22 22 22	98,770 77,700	315.00 259.00	82.31 64.75		23 23	38,240 43,747	135.00 146.00	31. 87 36. 46	ļ
22	41.012	162.00	34. 18		24	155,676	1.090.00	129. 73	5. 84
22 22	27, 128 67, 500	90. 00 304. 00	22. 62 56. 25	18.05	26 26	263,751	1,583.00 973.00	219. <b>79</b> 135. 07	32. 97 20. 26
22	67,200	336.00	56.85		26	162,078 110,670	664.00	92. 23	13.83
23	16, 192	376.00	30.16	2.61	26	100,800	504.00	84.00	1.28
23 23 23 24 25	137,860 67,039 33,600	846.00 469.00	114.88 55.87	7.60 2.51	26 27	168, 000 71, 497 30, 702	840. 00 248. 00	140.00 59.58	21.00
23	33,600	168.00	28.00	. 43	27 27	30, 702	184. 00 184. 00	<b>25.</b> 50	3.84
25	89,042 36,260	304.00 392.00	74. 20 30. 22		27	30, 702 30, 702	184.00	25. 59 25. 59	3.84
25	89,100	563.00	74. 25	7.34	28	38,496	121.00	32.08	
25 26 26 26 27 27 27 29	33, 176 106, 672	332, 00 640, 00	27. 65 88. 89	2. 38 13. 33	28 28	38, 496 76, 321 37, 786	259. 00 135. 00	63. 60 31. 49	3.84
26	90.742	293.00	75. 62		28 29	39,178	124.00	32.66	
20 27	135, 400 30, 681	672.00 184.00	112.00 25.57	1.71 3.84	29	39, 326 62, 684	135.00 439.00	32. 77 52. 24	2, 25
27	1 62,361	184.00 437.00	51.97	2.34	Sept. 2	62, 684 37, 301	124.00	31.08	
29 29	94,833 62,362	664.00 437.00	79. 03 51. 97	3. 56 2. 34	2 2	77,082 77,944	259. 00 258. 00	64. 24 64. 95	
29 29	115,500	577.00	96. 25		2 2	51,272	513.00	42.73	2.00
29	50,000 25,079	225.00 248.00	41. 67 62. 57		8	60, 690 125, 798	864.00 881.00	50. 58 104. 83	7.50
29	25,079 132,090	793.00	110.08	16.51	į į.	3V, 830	135.00	33. 19	l

Date of arrival.	Quantity.	Appraised value.	Duty.	Coun- tervall- lng duty.	Date of arrival.	Quantity.	Appraised value.	Duty,	Coun- terval ing duty
1907.	Pounds.		***		1907.	Pounds.			-
lept. 4	45, 240 30, 702	\$470.00 184.00	\$37. 70 25. 58	\$3. 26 3. 84	Oct. 3	31,816	\$382.00 382.00	\$26. 51 26. 51	\$3.1 3.1
5	78 546	259.00	65. 47	0.02	3	31,816 37,336	124.00	31. 11	3.1
5	78, 546 78, 777	370.00	65. 47 65. 65		3	37, 336 35, 328	144.00	29.64	
6	41,983	135.00	34. 94	<u></u>	4	58,778	621.00	48.98	7.8
6	95,400	601.00	79. 50	11.93 10.42	4	18,740 35,220	75.00 423.00	15.62	
4	83, 385 70, 640	589. 00 848. 00	69. 49 58. 87	10. 12	4	34,620	415.00	29. 35 28. 85	
7 7 7 9	70, 640 85, 320	400.00	29. 43		4	34, 620 57, 700	692.00	48 DR	
9	1 25, 865	90.00	<ul> <li>21.55</li> </ul>			39,494	135.00	32. 91 65. 61	
9	37,356	124.00	31.13		. 4	78,737 38,953	333. 00 135. 00	65. 61	
9	46,980 91,950	424. 00 623. 00	39. 15 76, 63	11.49	2	39,321	135.00	32. 46 32. 77 100. 23	
9	91,950. 78,207	259. 00 315. 00	65. 17		5	120, 280	1, 433.00	100. 23	
9	95, 174	315.00	79. 31	3. 26	5	26, 726	90.00	22. 27	
10	45,240	452.00 381.00	37.70		7	70, 513	248.00	58. 76 25. 63	3.1
11	95, 174 45, 240 35, 220 45, 240	452.00	65. 17 79. 31 37. 70 29. 35 37. 70	3.26	5 7 7	30,750 22,620	311. 00 226. 00	18.85	1.
īī	90,000	180.00	<b>33. 33</b>	11.92	7	45, 240	452.00	37. 70	3.
11 11 11 11 12 13 13 14	79,924	799.09	66. 61	11. 92 5. 76 3. 51	7	28,720	336.00	23. 93	1
12	28, 110 35, 320	177.00 368.00	23. 43 29. 43	3. 31	7 7 7	122,808	737.00 423.00	102. 34 29. 37	15.
13	117.634	394.00	98.03		7	35, 240 74, 237	891.00	61.86	9.
14	76, 745	259.00	63, 95		7	63,632	764.00	53. 03	7.1
14	78, 398 65, 160	270.00	65. 33 54. 30		7 7 7	59,970	368.00	49. 98	7.
16 16	35 220	738.00 381.00	29.35		1 7	45, 240 22, 620	452.00 226.00	37. 70 18. 85	3.
17	35, 220 107, 573	753.00	89.64	4.03	7	22,620	226.00	18. 85	î.
17 17	22,620	226.00	18, 85	1.63	7	39.748	135, 00	33. 12	
17	90,509	315.00	75. 42 74. 32		. 7	51,000	180.00	42. 50	···-
18 18	89, 182 28, 060	304. 00 182. 00	23 38	1.75	10 11	84,648 62,446	931.00 659.00	70. 54 52. 04	10.
18	63, 632	464.00	23. 38 53. 03	7.95	ii	61,550	676.00	51. 29	7.
18	63, 632 29, 740 45, 240	368. 00 452. 00	24. 78 37. 70	1	11	30,277	306.00	25 23	3.
18	45, 240	452.00 270.00	37.70	3.26	11	34,620	424.00	28. 85 75. 43 26. 51	
19	78,996 112,003	1,120.00	65. 83 93. 34	14.00	11 11	90, 512 31, 816	315.00 382.00	75. 43 26. 51	8.
20	77.740	608.00	64. 79	11.70	ii	41.527	135.00	34. 61	
20	36, 557 43, 671	135.00	30. 46 36. 39		11	31,816	382.00	26. 51	3.
21	43,671 28,060	180. 00 182. 00	36. 39 23. 38	1.75	12	29,035	183. 00	24. 20 54. 04	3.
21	95, 448	1,145.00	79. 54	11.93	12 14	64, 844 22, 620	665. 00 235. 00	18. 85	i.
23	23,080	182.00	19. 23 37. 70		14	57,600 71,716 43,212	346.00	48.00	
23	45, 240	452.00	37. 70	3. 26 6. 73 10. 26	14	71,716	502. 00 782. 00	59. 76 72. 02	2. 5.
24	30,000	135.00	25. 00 118. 75	10.26	14	43,212	782.00	72.02	5.
26	142, 506 38, 498	1, 434. 00 124. 00	32.08	10.20	15 16	67,664 111,901	236. 00 393. 00	56. 39 93. 25	
27	38, 498 42, 768	135.00	35, 64		16	79,968	281.00	66. 64	
27	1 40.121	158.00	38. 43 30. 72		16	30,702	184.00	25, 59	3.
27	36,859 44,194	124.00 180.00	30. 72 36. 83		16 16	1 31.817	387. 00 701. 00	26. 51 48. 67	8.
18 19 20 21 21 21 22 24 25 26 27 27 27 27 27 27 27 27 27 27 27 27 27	48.695	189.00	40.58		16	58, 407 21, 210	255.00	17.68	2.
27	31,815 31,815	382.00	26. 51	3.98	16 17 17	75,816 41,752 166,817	255. 00 270. 00	63. 18 34. 79	ļ
27	31,815	382.00	26. 51	3.98	17	41,752	180.00	34. 79	·····
27	31,815 36,450	382.00 237.00	26. 51 30. 38	3. 98 4. 56	17 17	60,690	1, 168. 00 364. 00	139. 01 50. 58	8. 7.
27	127.841	895.00	106. 53	4.79	18	40,000	180.00	33. 34	7.
28	130, 959 21, 210	917.00	109. 13	4. 91	19	54, 536 30, 550	216.00	45. 45	I
30	21,210	255.00	17.68	2.65	21 21	30,550	305.00	25. 46	8.
20 20	68, 178 63, 633	225. 00 764. 00	56. 82 53. 03	7.95	21	67, 106 39, 707	671.00 135.00	55. 92 33. 09	1
30	1 35 XUR	350 00	29. 92	4. 49	21 21 21 21 21 22	137, 195 63, 632	960.00	114.33	8. 7.
30	34, 620 45, 240	415.00	28. 85 37. 70		21	63,632	764.00	53. 03	7.
30 let. 1	45,240	470.00	37. 70 55. 32	3. 26	21	38, 165 30, 000	135. 00 135. 00	31.80 25.00	4
1	66,380 67,860	270.00 679.00	55. 52 56. 55	4.89	22	39, 984	240.00	33, 32	5.
ż	116,659	1,400.00	97. 22	14.58	23 23	39,984 57,304	573.00	33. 32 47. 75	8.
2	116, 659 45, 240	452.00	37. 70	3. 26	24	86.416	605.00	72.01	8.
2 2 2 2 2 3 3	90,480	905.00	75. 40	6. 51 8. 18	25 25 28 28 28 28	48, 818 131, 952	189. 00 450. 00	40.68 100.96	
2	65, 420 30, 808	412.00 194.00	54. 52 25. 67 59. 76	2 95	20	52,594	216.00	109. 96 43. 83	
ž	71,716 127,195 116,656	502.00	59. 76	2, 69	28	52, 594 22, 451	90.00	18.71	
3	137, 195	960.00 1,400.00	114.33	5.14	1 28	118, 984 22, 620	416.00 226.00	99. 15 18. 85	ıı

Date o	Quantity.	Appraised value.	Duty.	Coun- tervail- ing duty.	Date of arrival.	Quantity.	Appraised value.	Duty.	Coun- tervail- ing duty.
1907.	Pounds.				1907.	Pounds.			
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8 71,203 8 181,762 8 173,053	\$248.00	\$59.34		Nov. 22	32, 840 64, 240	\$185.00	\$27. 37 53. 53	\$8.00
2	8 173 053	2,567.00 2,444.00	151. 47 1 <b>44.</b> 21	\$6.82 6.49	22	24,360	385.00 362.00	20 30	38.00
2	8 99,405	696.00	82. 84	3, 73	25	96.360	578.00	80. 30 58. 73 59. 76 45. 87	12.0
2	9 45,240	452, 00	37. 70	3. 26	25	70, 479 71, 716	493.00	58. 73	2.6
2 2 8	9 32,800 9 67,106	135. 00 675. 00	27. 33 55. 92	4.83	25 25	71,716 55,042	753.00 550.00	59. 76 45. 97	2.60
9	0 34.750	232.00	28. 96	1.30	25	32, 422	337.00	27. 02	
8	1 100,827	360.00	84. 02		28	22.620	235.00	18 85	1.6
_ 8	1 32,300	135.00	26. 92		28 28	1 117.040	702.00 193.00	97. 53 26. 77 59. 76	14.6
	1 47,874 1 75,833	180. 00 270. 00	39. 90 63. 19		29	32, 120 71, 716 316, 485	502.00	59.76	2.6
	1 48,351	216.00	40. 29 18. 85		30	316, 485	2,215.60	263. 74	l 11.87
	1 22,620	226.00	18.85	1.63	Dec. 2	1 101 337	709.00	84. 45	2.80
	2 74, 495 2 132, 010 2 43, 207	745.00 842.00	62. 08 110. 01	5. 36 16. 50	2 2	27, 960 71, 716 71, 716	335.00 502.00	23, 30 59, 76 59, 76	9 80
	2 132,010 2 43,207	302.00	36, 01	10.30	2	71,716	502.00	59. 76	26
	4 41, 153	180.00	34. 29 41. 15		2	82,629	868.00	68, 86	2.6 2.6 3.1
	4 49.378	180.00	41. 15		2	117,015	1,152.00	97. 52 207. 37	8.4 9.3 11.6
	4 39, 281 4 35, 016	135. 00 135. 00	32. 73 29. 18	J	3	248, 842 310, 249 79, 380	1,742.00 2,172.00	258. 54	11.6
	4 24, 125	108.00	20, 10		3	79, 380	484.00	66. 15	1
	6   42.502	180.00	35. 42 28. 67		4	105,719	740.00	88, 10	3.9
	6 34, 400 6 33, 300	135.00 135.00	28. 67		4 5	38, 400	230.00 679.00	32.00 56.55	
	6 92,100	553.00	76. 75		6	67,800 74,646	746.00	62. 21	4.8 5.3
	7 33,100	135, 00	27. 75 76. 75 27. 58		6	32, 120	193.00	56, 55 62, 21 26, 77	4.0
	7 30,565 7 179,290	229.00	25. 47	3. 82 6. 72 5. 38 1. 19	6	119, 260	1, 431. 00	99. 38 59. 32	
	7   179,290 8   143,432	2, 532. 00 1, 004. 00	149. 41 119. 53	5.72	7	71, 180	854.00 288.00	59. 32 50. 48	
	8 143, 432 8 16, 588 8 125, 600	166.00	13. 82	1.19	9	71, 381 35, 280	423.00	59. 48 29. 40	
	8 125,600	754.00	104. 67		9	251,005	1,757.00 1,677.00	209. 17	9. 4 8. 90
	8 24.000 8 42.083	108.00 180.00	20. 00 35. 07		9	239, 568 219, 825	1,677.00	199. 64 183. 19	8.2
	8 48.000	216.00	40.00	•••••	10	96,360	578.00	80. 30	12.0
	8 40,000	180.00	33. 33		10	86, 395 128, 701	378.00	80. 30 72. 00	
	9 140, 244	1,402.00	116. 87	15.79	10	128,701	901.00	107. 25 50. 92	1. 9
	9 64,350 9 143,432	675.00 1,004.00	53. 63 119. 53	2. 41 5. 38	11 11	61, 103 70, 479	369.00 740.00	58. 73	2.6
	50,000	225.00	41. 67		12 12	51,637	l 198.00 İ	43. 03	
	50,979	216.00	42. 48	4. 83	12	146, 832	1,028.00 2,183.00	122. 36	5. 5
1	9 41,798 1 67,106	180.00 671.00	34. 83 55. 92	4.83	12 13	311,808 35,920	1 431 (11)	259. 84 29. 93	11.6
i	1 18,608 1 18,261	72.00	15. 51		13	1 94,960	1,140.00	79. 13	
1	1 18,261	1 72.00	15. 22 62. 84		14	280,627 24,200	1,964 00	233, 86	10.5
1 1 1	2 75, 409 2 82, 251	315.00 315.00	62. 84 68. <b>54</b>		14 14	35, 900	293.00 431.00	20. 17 29. 92	
î	2 25, 560	108.00	21. 30		16	75, 720	454.00	63 10	9. 6
1	2 32, 422 3 20, 700	337.00	27. 02	2.34	16	74.170	869.00	61. 81	I
1	3 20,700	124. 00 565. 00	17. 25 78. 50		16 18	56, 120	421.00 844.00	61. 81 46. 77 70. 37	1.7 6.0
1 1 1 1	3 94,200 3 25,710	108.00	21. 43		18	84, 448 98, 219	688.00	81. 85	3.6
ī	3 34,407	135.00	21. 43 28. 67		18	24,780	297.00	20. 65	
1	4 36, 921	135.00	30. 77		18	1 35.920	431.00	29. 93 204. 79	
1	4 85, 287 4 31, 110	369. 00 249. 00	71.07 25.93	3.89	19 19	245, 750 276, 662	1,720.00 1,930.00	230. 55	9. 2 10. 3
î	5 I 30.990	310.00	25. 93 25. 83	3. 87 7. 13	20	124,723	873.00	103, 94	4.6
1	6 190, 203	1,998.00	158. 51	7.13	21	59,660	358.00	49.72	7.4
1	6 76,908	769. 00 446. 00	64. 09 30. 97	5.54	21	35, 920 61, 320	431.00 736.00	29. 93 51. 10	
1	6 37,160 8 32,840	197.00	27. 37		23	45, 240	452.00	51. 10 37. 70	3.2
1	81 75.400	754.00	62. 83		23	57,304	573.00	47. 75	4.1
1	8 95,620 8 24,000	1,147.00 144.00	79.68 20.00		21 21 21 23 23 23 23 24	59,781 79,924	373.00 799.00	49. 82 66. 60	5. 7
1	9 1 22,620	235.00	18, 85	1.63	25 25	107, 574	753.00	89. 65	4. 0
1	9 26,560	185, 00	22. 13	2.69	25	26,400	158.00	22, 00	3.3
Ĩ	71,716	502.00	59.76	2.69	26	128, 480 19, 200 107, 574	771.00	107. 07	16.0
1	32,422 9 74.761	324. 00 259. 00	27. 02 62. 30	2. 33	26 27	107.574	115.00 753.00	16. 00 89. 65	4.0
2	32, 422 9 74, 761 0 57, 304	573.00	62. 30 47. 75	4 13	27	143,432	1,004.00	119. 53 172. 75	5.3
3	0 24,360	292,00	20.30	J	27 27 28	207.300	2,488.00	172.75	1. 3
1 1 2 2 2 2 2	0 35,880 0 32,860	431. 00 185. 00	29. 90 27. 38		28 28	35,858 16,060	251.00 96.00	29. 88 13. 39	1.3 2.0
	1 19,200	116.00	16.00	1	1 <b>2</b> 50	16,060 82,120	193.00	26. 77	1 70

Date of arrival.	Quantity.	Appraised value.	Duty.	Coun- tervail- ing. duty.	Date arriv		Quantity.	Appraised value.	Duty.	Coun- tervali ing duty.
1907. Dec. 30	Pounds.				190		Pounds.			
Dec. 30	117,040 107,574	\$702.00 753.00	\$97. 53 89. 65	\$14.63 4.03	Feb.	17 17	44, 460 36, 720	\$346, 00 220, 00	\$37. 22 30. 60	34.5
30	24.380	293.00	20.32		Į	17	26.394	158.00	22.00	3.3
30 30	134,600 64,240	2, 933. 00 385. 00	195. 50 53. 53	8.03	1	18 19	37,666 36,720	135, 00 220, 00	31. 39 30. 60	4.5
30	107,574	753.00	89.65	4, 03	1	19	21,800	131.00	18.17	2.7
30	143.432	1,004.00	119. 53	5.38	1	20	37, 190	135.00	30.99	
31 31	82, 120 71, 840	193.00 898.00	26. 77 59. 87	4.02		21 22	73, 892 82, 530	739.00 193.00	61. 58 26. 78	5.8 4.0
	,				1	22	32,530	193.00	26.78	4.0
1908.	57 240	373.00	47.78	i		22 24	32,530	193, 00 633, 00	26. 78 52. 78	4.0
2	57,340 36,720	220.00	30. 60	4.59	i	25	63, 336 66, 990	519.00	55. 83	4.5
2	128,480	771.00	107. 07	16.06		25	53,903	324.00	44. 94	6.7
2 8	28,800 52,800	173.00 817.00	24.00 44.00		1	25 26	32, 130 32, 130	193.00 193.00	26.78 26.78	4.0
8	1 151.623	867.00	126. 35	18.95	ĺ	26 26	32, 130 36, 720	193.00	26.78	1 4.0
8	74,340 106,646	446.00 747.00	61. 95 88. 87	9. 29 4. 00		26	36,720	270.00	30.60 141.46	12.2
8	71,098	498.00	59. 25	2.67	1	26 27 27 28	149, 751 32, 130	1, 482, 00 193, 00	26.78	4.0
8	71,098 179,600 97,520	2,245.00	149. 67	12. 19		27	64, 290 48, 960	386.00	53. 55	8.0
4	97,520 26,400	585. 00 158. 00	81. 27 22. 00	12. 19 3. 30	Mar.	28 2	48,960 82,130	318.00 193.00	40.80 26.78	1.5
4	120,460	723.00	100.38	15.06		2	100.980	485.00	84, 15	12.6
4	35,920 71,820	431.00 898.00	29. 93 59. 85		1	2	32, 130 21, 800	193.00 131.00	26.78 18.17	2.7
4	22,620	226,00	18. 85	1.63	l	ŝ	67, 420	454.00	56. 18	8.4
6	153, 014	1,071.00	127.51	5.74		6	67, 420 57, 340	373.00	47.78	
6	35, 920 139, 637	449.00 1,696.00	29. 93 116. 36		}	7	31,668 66,990 57,600 86,060	317.00 519.00	26. 39 55. 83	2. 2 4. 3
7	139, 637 154, 880	929.00	129.07	19.36	1	9	57,600	346.00	48.00	l
7 7	118, 487 60, 276	829. 00 753. 00	98. 74 50. 23	4.44	1	12 12	28,800	516.00 173.00	71.72 24.00	10.7
7	109, 990 22, 620	1,308.00	91.76			16	32,130	193.00	26.78	4.0
7	22,620	226.00	18. 85 79. 25	3. 30		16	32,130 32,130 32,130	193.00	26.78	4.0
10	95, 101 19, 270	666. 00 125. 00	16.06	3. 57		16 18	58,560	193.00 381.00	26.78 48.80	4.0
10	151, 684 28, 670 32, 120	1,062.00	126.40	5.69	1	18	<b>23,694</b>	837.00	69.74	6.0
11 13	28,070	186.00 193.00	23. 89 26, 77	4.02	l	19 20	43,600 31,668	523.00 317.00	36. 33 26. 39	5. 4 5. 8
13	1 71.820	862, 00	59, 85	l		20	33,495	260.00	27.91	2.3
18 12	172, 080 90, 640	1, 032. 00 544. 00	143. 40 75. 53	21.51 11.33		21 24	53,930 32,130	324.00 193.00	24.94	6.7
18 18	1 99,810	431.00	29. 93	l		27	68,850	826, 00	26. 78 57. 38	l
15	40,716	407. 00 312. 00	33. 93 39. 95	2.93	٠	30	77,676	602.00	64.73 27.91	5.5
16 17	47, 940 86, 400 45, 240	518.00	72.00 37.70		Apr.	7	33,495 66,990	260.00 519.00	55. 83	9
18	45, 240	452, 00	37.70	3. 26	1	7	38,890	253.00	32, 40	ļ <u>.</u>
20 20	32, 120 68, 850	193. 00 413. 00	26.77 57.38	4. 02 8. 61		13	58,560 58,560	381.00 381.00	48. 80 48. 80	1.8
20 21 21 21 22 22 22	68, 620	522.00	57. 18	8. 58		16	58,560 36,720 56,120	381.00	48.80	8.6
21 21	64, 260 34, 650	386.00 416.00	53. 55 28. 88	8.03		20 21	36,720	441.00 365.00	30.60 46.77	5.2
21	63, 336	633.00	52, 78	4.56	1	27	19,680	128.00	16.40	.2.4
22	58, 520	351.00	48.77	7.32 12.05	1	27	29,280	190.00 408.00	24. 40 28. 35	8.6
22	96, 390 24, 796	578.00 298.00	80. 33 20. 66	12.00	1	28 28	34,020 76,800	461.00	64.00	
23	40,716	407.00	33. 93	2.93	1	30	37,170	446.00	30.98	
24 25	63, 336 214, 580	633.00 1,287.00	52. 78 178. 82	4. 56 26. 82	1	30 30	37,170 36,540	446, 00 438, 00	30. 98 30. 45	
25 25	32, 120	193.00	26, 77	4.02	May	1	38,880	467.00	32, 40	
25 25	278, 840 35, 910	1,673.00 431.00	232. 37 29. 93	34.86		1	35,920 42,480	431.00 510.00	29. 93 35. 40	
27	34,650	416.00	28. 88 27. 91			1	25.300	164.00	21.08	3. i
28	33, 495 32, 130	260.00	27. 91	. 65	1	2	28,060 64,776	182, 00	23, 38	3.5
29 29	32. 130 25, 372	193.00 90.00	26.78 21.14	4.02		5 5	35,910	777.00 431.00	53. 98 29. 93	
Peb. 1	30, 520	183.00	25. 43	8.82		18	75,600	907.00	63.00	
5 8	31,668 32,130	317.00 193.00	26. 39 26. 78	2. 28 4. 02		18 19	35,910 73,710	431.00 885.00	29. 93 61. 43	
12	25,760	180.00	21.47	.97	1	21	77,670	932.00	64.73	
18	51.520	261.00	42.93	1.93 2.28	To	<u>لما</u>	E4 E00 899	366,390.00	45 710 10	2 490 0
13 13	31.668 66.990	317.00 519.00	26. 39 55. 83	4.82	101	·	UZ, UUE, UZS	JUU , 08U. UU	-0, 118. TA	p, <del>10</del> 4 0

Ground wood pulp, chemical wood pulp, and printing paper imported from Canada into the District of Champlain, Port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

#### CHEMICAL WOOD PULP.

Date of arrival.	Quantity.	Appraised value.	Duty.	Coun- tervail- ing duty.	Date of arrival.	Quantity.	Appresised value.	Duty.	Coun- tervall ing duty.
1907. Jan. 2 2 2 3 4	Pounds. 67, 421 36, 082 38, 473 66, 144 130, 047 40, 858	\$1,025.00 680.00 727.00 1,182.00 2,903.00 720.00	\$112.30 60.14 64.12 110.24 270.97 68.10	\$8. 31 4. 45 4. 74 8. 15 20. 03 5. 03	1907. May 13 13 13 16 17 17	Pounds. 34, 442 34, 645 40, 261 37, 976 36, 780 113, 533	\$630.00 711.00 763.00 778.00 552.00	\$57. 40 57. 74 67. 10 63. 29 61. 30	84. 2 4. 2 4. 9 4. 6
7 8 10 14 17 19 24	72, 359 39, 823 86, 493 41, 209 74, 169 39, 645 40, 490	1,236.00 696.00 1,230.00 632.00 1,245.00 747.00 724.00	120. 60 66. 37 144. 15 68. 68 123. 45 66. 08 67. 48	8. 92 4. 91 10. 66 5. 06 10. 98 4. 88 4. 99	June 1 3	89, 534 51, 070 41, 801 44, 284 36, 098 39, 576 48, 834	1,988.00 1,729.00 766.00 801.00 780.00 693.00 784.00 934.00	189. 23 149. 23 85. 12 69. 67 73. 81 60. 16 65. 96 81. 39	11. 0 5. 1 5. 4 4. 4 6. 6
28 29 Feb. 1 1 4 4 5	74,062 40,697 41,685 80,243 84,237 118,055 87,570	1,287.00 722.00 740.00 1,524.00 1,501.00 2,125.00 1,319.00	123. 44 67. 83 69. 48 133. 74 140. 40 196. 76 145. 95	9. 12 5. 01 5. 13 9. 89 10. 38 15. 01	5 11 13 14 17 24 27	129, 538 45, 479 39, 315 37, 296 85, 702 80, 544 47, 017	2,442.00 967.00 760.00 707.00 1,521.00 1,424.00 930.00	215. 89 75. 80 65. 53 62. 16 142. 84 134. 24 78. 36	15. 9 5. 6 4. 8 4. 6 10. 5 9. 9
6 6 7 8 8	41,170 35, 166 66,453 37,447 36,726 74,563	690.00 646.00 931.00 562.00 551.00 1,181.00 606.00	68. 62 59. 78 110. 76 62. 41 61. 21 124. 27 56. 08	5. 07 4. 42 8. 19 9, 19 6. 01	July 4 5 5 8 8 10	39, 499 47, 149 174, 351 45, 903 44, 556 45, 170 44, 161	755. 00 854. 00 3, 162. 00 812. 00 877. 00 814. 00 778. 00	65. 75 78. 58 290. 58 76. 51 74. 28 75. 28 73. 60	4. 8 5. 8 21. 4 5. 6
11 11 13 13 16 18	33, 647 43, 061 36, 541 41, 040 145, 804 36, 233 36, 575 63, 362 31, 974	756.00 613.00 722.00 2,724.00 544.00 551.00 1,140.00	71. 77 60. 90 68. 40 243. 01 60. 39 60. 96 105. 59	5. 30 4. 50 5. 06 17. 96	17 18 25 29 Aug. 1 1	47, 292 47, 179 44, 496 40, 074 87, 953 45, 294 42, 821	919. 00 900. 00 862. 00 803. 00 1, 562. 00 854. 00 752. 00	78. 82 78. 63 74. 16 66. 79 146. 59 75. 49 71. 37	5. 8 5. 8 5. 4 4. 9 10. 8 5. 5
18 18 18 21 21 23 25	31, 974 76, 580 44, 786 36, 273 146, 760 38, 623 108, 246	575. 00 1, 147. 00 674. 00 608. 00 2, 281. 00 737. 00	53. 29 127. 65 74. 64 60. 46 244. 60 64. 37	4. 28 9. 44 	14 15 16 22 22 22 29	89, 334 45, 029 43, 793 40, 411 47, 635 44, 317	1, 632. 00 871. 00 773. 00 715. 00 850. 00 718. 00	148. 89 75. 05 72. 99 67. 35 79. 39 73. 86	11.0 5.8 5.4 4.9 5.8
26 27 28 Mar. 2 4 4	108, 246 37, 640 43, 113 40, 327 41, 191 41, 537 43, 238 148, 778	1,864.00 601.00 647.00 784.00 745.00 790.00 758.00	180. 45 62. 73 71. 86 67. 21 69. 99 69. 23 72. 06	4. 64 4. 97 5. 17 5. 12 5. 33	Sept. 3 5 7 10 13 16 16	83,866 36,895 43,543 88,355 82,915 132,963 37,061	1,731.00 643.00 950.00 1,550.00 1,520.00 2,348.00 692.00	139. 78 61. 49 72. 57 147. 26 138. 19 221. 60 61. 77	10.3 4.8 5.3 10.8 10.2 16.3
4 6 6 7 14 14	148,778 120,120 35,984 70,462 139,125 44,991 41,064	2,696,00 2,211,00 646,00 1,230,00 2,520,00 788,00 775,00	247. 97 200. 22 59. 98 117. 44 231. 97 74. 99 68. 44	18.34 14.79 4.43 8.68 17.15 5.54 5.06	16 19 23 25 28 28 Oct. 1	43, 898 42, 620 42, 430 39, 383 32, 478 83, 581 94, 292	771. 00 764. 00 741. 00 691. 00 650. 00 1, 478. 00	73. 16 71. 03 70. 72 65. 64 54. 13 139. 30 157. 16	5. 4 5. 2 4. 8 10. 3 11. 6
15 21 23 23 1 1 1 5	124,770 91,737 47,842 46,152 43,990 84,172	2, 198.00 1, 639.00 897.00 972.00 840.00 1, 573.00	207. 95 152. 90 79. 74 76. 92 73. 30 140. 29	15. 38 11. 30 5. 90 5. 69 5. 42 10. 37	Nov. 1 11 18 14	20,293 43,246 88,835 34,609 40,909 42,125	132.00 779.00 1,700.00 653.00 712.00 740.00	33. 82 72. 08 148. 06 57. 68 68. 18 70. 21	2.5 5.3 10.9 4.3 5.0
10 15 17 20 20 20	43, 826 45, 042 46, 394 45, 735 40, 150 44, 845	776. 00 676. 00 857. 00 870. 00 771. 00 673. 00	73. 05 75. 07 77. 32 76. 23 66. 92 74. 74	5. 40 5. 72 5. 64 4. 95	20 21 22 26 29	69, 420 18, 853 41, 374 36, 696 166, 831 38, 597 37, 830	1,211.00 117.00 728.00 648.00 8,101.00 713.00 688.00	115. 70 31. 42 68. 96 61. 16 278. 05 64. 33 63. 05	8 2 5 4 20
Eay 3 4 4 6 9	41,060 116,451 79,663 39,414 36,816 26,865	733. 00 2, 176. 00 1, 388. 00 697. 00 651. 00 662. 00	68. 43 194. 09 132. 78 65. 69 61. 36 61. 44	5, 06 14, 34 9, 81 4, 86 4, 54 4, 54	Dec. 2 2 2 3 4	37, 830 44, 022 40, 073 47, 002 36, 693 115, 450	798. 00 711. 00 890. 00 664. 00	73. 37 66. 79 78. 34 61. 16 259. 08	4: 4: 4:

Ground wood pulp, chemical wood pulp, and printing paper imported from Canada into the District of Champlain, Port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

#### CHEMICAL WOOD PULP-Continued.

Date of arrival.	Quantity.	Appraised value.	Duty.	Coun- tervail- ing duty.	Date of arrival.	Quantity.	Appraised value.	Dut <b>y</b> .	Coun- tervail- ing duty.
1907. Dec. 12 13 13 13 16 16 16 18 20 21 22 27 1908. Jan. 4 16 16 17 24 25 Feb. 3 4 17 21 11 21 21 21 21 21 22 24 25 27	Pounds. 36,889 39,755 14,447 82,962 16,155 42,098 158,530 78,013 12,684 120,202 106,025  40,859 81,269 37,326 42,124 34,673 33,829 40,617,251 16,730 17,881 16,730 37,290 37,290 38,612 38,994 40,772 34,601 16,733 37,290 37,4001 16,739 37,290 37,4001 16,739 37,290 37,4001 16,739 37,290 37,4001 16,739 37,290 37,4001 16,733 37,290 37,612 34,601 40,772 34,601 40,281 33,785	\$711. 00 754. 00 82. 00 1, 404. 00 96. 00 754. 00 2, 835. 00 1, 432. 00 72. 00 2, 215. 00 2, 215. 00 2, 203. 00 1, 536. 00 136. 00 113. 00 711. 00 753. 00 646. 00 1, 308. 00 1, 404. 00 1, 308. 00 1, 409. 00 1, 121. 00 1, 209. 00 1,	\$61. 48 66. 48 62. 40 138. 25 264. 22 21. 14 200. 34 176. 71 68. 10 135. 46 22. 21 28. 68 70. 01 57. 79 134. 29 34. 56 123. 34 47. 66. 66 32. 18 67. 95 57. 79 57. 70 57.	\$4.55 4.92 1.78 10.22 1.99 5.19 19.61 14.81 13.06 5.03 4.60 2.13 5.19 4.17 5.00 2.12 2.00 2.07 4.59 4.47 4.93 2.38 5.02 4.26 4.96 4.166	1908. Jan. 15 Feb. 27 Mar. 20 24 25 28 30 30 Apr. 1 6 6 9 9 10 10 10 15 16 20 23 24 27 May 1 1 6 9 15 18 19 20 21 22 22 25 27 Total	Pounds. 43, 225 57, 712 37, 620 31, 612 35, 057 46, 690 73, 395 27, 443 44, 670 111, 883 73, 264 41, 343 43, 149 38, 548 41, 485 75, 804 42, 852 42, 191 37, 271 36, 32, 674 38, 692 38, 692 38, 692 39, 933 45, 204 42, 746 74, 530 72, 940 67, 078 39, 693 39, 943 45, 244 42, 545 39, 693 39, 943 45, 244 42, 746 74, 530 772, 940 67, 078 39, 698 35, 438 30, 421 38, 424 38, 535	\$1, 082, 62 1, 442, 80 790, 30 876, 42 700, 35 1, 834, 37 686, 07 1, 116, 76 2, 407, 65 1, 280, 00 657, 00 1, 347, 00 657, 00 1, 347, 00 657, 00 1, 347, 00 658, 00 701, 30 6611, 00 668, 00 701, 848, 00 611, 00 1, 863, 00	\$72. 06 96. 19 52. 69 52. 69 58. 44 77. 82 122. 33 45. 74 74. 45 186. 47 122. 11 64. 25 69. 14 128. 34 128. 34 128. 34 129. 129. 129. 129. 129. 129. 129. 129.	\$16. 92 8. 22 5. 88 2. 97 9. 00 5. 33 5. 11 9. 34 4. 77 4. 93 5. 22 21. 36 4. 4. 87 4. 88 4. 37 4. 88 4.

## PRINTING PAPER.

1907.	Pounds.		1 1	1907.	Pounds.			1
eb. 1	42, 273	\$703.00	\$126. 82	Apr. 17	40,800	\$745.00	\$122.40	
15	36,000	578.00	108.00	17	45,858	757.00	137. 57	
far. 6	45, 437	754.00	136. 31 1	18	44, 952	742.00	134, 86	
21	36, 500	662.00	109. 50	18	48,300	881.00	144.90	
23	43, 646	720.00	130. 94	19	133, 300	2, 433, 00	399.90	
23	78, 992	1,303.00	236, 98	20	123, 600	2, 255. 00	370.80	l
25	42,800	776.00	128. 40	20	30,669	506.00	92, 01	 
26	43, 100	711.00	129. 30	20	34,790	574.00	104. 37	
28	46,774	772.00	140. 32	22	39, 400	719.00	118.20	
28	82,045	1, 354, 00	246. 13	23	39, 837	738.00	119. 51	l
pr. 1	35, 948	593.00	107.84	24	40,976	676.00	122.93	
1 1	78,076	1,288.00	234. 23	25	36,000	657.00	108.00	
1 [	47,875	790.00	143. 63	25	78,704	1,396.00	236. 11	
1 ]	99, 300	1,801.00	297. 90	27	166, 900	3,046.00	500.70	
3	41,700	756.00	125. 10	29	41,855	774.00	125. 57	l
3	38, 419	634.00	115. 26	29	64, 508	1, 195. 00	193.70	l
4	32,000	344.00	96.00	May 1	95, 057	1,792.00	285. 17	
6	47.453	783.00	142.36	2	40, 116	742.00	120. 35	
9 1	53, 739	887.00	161. 22	3	45, 187	836, 00	135. 56	
10	45, 091	744.00	135. 27	3.	46,771	865.00	140. 31	
11	89,741	1,481.00	269. 22	3	232, 906	4, 488. 00	698. 72	
12	32, 439	535.00	97. 32	4	100, 316	1,956.00	<b>3</b> 00. 95	
13	30, 477	503.00	91. 43	4	43, 562	806.00	130.69	
13	47, 480	783.00	142. 44	6	54,694	1,067.00	164.08	
15	45,000	761.00	135.00	6	46,681	864.00	140.04	
16	42,000	767.00	126.00	7	46,060	853.00	138. 18	l
16	76, 932	1, 269. 00	230. 79	8	47,662	929.00	142.99	
16	44, 040	727.00	132. 12	9 1	98,984	1,866.00	296. 95	

PRINTING PAPER-Continued.

Date	e of rai.	Quantity.	Appraised value.	Duty.	Coun- tervail- ing duty.	Date of arrival.	Quantity.	Appraised value.	Duty.	Countervall- ing duty.
190	7.	Pounds.				1907.	Pounds.		***	
May	9 11	87,900 193,284	\$1,626.00 3,599.00	\$263.70 579.85		Dec. 13	41,477 43,248	\$767.00 823.00	\$124.43 129.74	
	13	99,028	1,931.00	297. 08		26	44,042	837.00	132. 13	
	13	46,248 45,992	856.00	138. 74		30	40,212	764.00	120.64	
	13	45,992	851.00	137. 98						
	15 16	26,095 46,800	483.00 866.00	78. 29 140. 40		1908. Jan. 3	40 194	764, 00	120. 55	
	16	80.124	1,442.00	240.37		3	40,184 44,800	858.00	134. 40	30. 54
	16	80,124 43,700	686.00	131. 10		8	14,918	507.00	29. 84	
	16 17 20 21 22 23 24 25 27 27 27 28	174,100	3,172.00	522. 30		10	35,688	714.00	107.06	7. 60
	20	292,800 236,695	5,333.00 4,438.00	878. 40 710. 08		10 10	41,671 36,800	792. 00 644. 00	125. 01 110. 40	7.84
	22	33.056	612.00	99.17		13	37,976	722.00	113.93	
	22	38,200 284,938	707.00	114.60		15	35,093	722. 00 667. 00	105.28	
	23	284,938	5,285.00	854. 81	ļ	17	89,000	1,704.00	267.00	18. 96
	24	64,448 185,600	1,192.00 2,422.00	193. 34 406. 80		18	80,000 39,300	1,532.00 753.00	240. 00 117. 90	17. 04 8. 37
	27	85.689	1,643.00	257. 07		20 22	73,100	1,400.00	219.30	15.57
	27	85,689 37,603	603.00	97. 81		24	45,569	847.00	219.30 133.71	
	27	42,456 103,382	785.00	127. 37		30	38,500	737.00	115. 50	9. 63
June	28	83,914	2,016.00 1,596.00	310. 14 251. 74		Feb. 1	43,594	828. 00 720. 00	130. 78 112. 80	7.71
June	2	41,511	768.00	124. 53		17	37,600 47,760	915.00	143. 28	9.79
	3	123, 159	2,373.00	369. 47		19	70,520	2,272.00 759.00	355.56	24.71
	5 7	77,581	1,512.00	232.74		21	39,660		118.98	8. 13
	8	101,100	1,871.00 1,766.00 3,869.00	303. 30 286. 50		21 26	51,707	980.00 653.00	155. 12 103. 10	
	10	95,500 157,200	3,869.00	471.60		27	34,366 38,137	725.00	114. 41	
	11	143.500	2,619.00	430.50		27	44,000	792.00	132.00	9. 02
	12	53,500	976.00	160. 50		Mar. 2	43,940	835.00	131.82	
	17 19	39,000	694.00 678.00	117.00 109.87		6	44,561	847.00	133.68	8.54
	19	36,622 49,677	919.00	149. 03		14	40,105 46,600	713.00 839.00	120. 32 139. 80	9.55
	21	46,700	852.00	140. 10		14	46,483	883.00	139. 45	
	21 22 23 24 25 25 25 26 26	150,900	2,653.00	452.70		14	37,897	726.00	113.69	
	23	50,300 48,266	931.00 893.00	150, 90 144, 80		18 18	71,861	1,365.00 681.00	215. 58	7. 76
	25	1 47.987	888.00	143.93		19	37,843 47,374	800.00	113. 53 142. 12	1.10
	25	33,699	623.00	101. 10		23	71,864	1,365.00	215.59	
	25	30,037	556.00	90.11		26	34, 237	651.00	102.71	
	25	50,000 101,400	866.00 1,850.00	150. 00 304. 20		26 27	35,627 41,324	677. 00 785. 00	106. 88 123. 97	
	26	49.446	715.00	148. 34		30	35,309	671.00	105.93	
	26	48,018	888.00	144.05		30	35, 152	668.00	105.46	
V-1-	27 2	32,149 152,600	595.00	96. 45		Apr. 1	71,327	1,355.00	213.98	
July	11	132,000	2,785 00 2,364.00	457, 80 397, 26		6	35, 112 70, 768	667.00 1,345.00	105.34 212.30	
	15	132,419 225,506 46,836 39,245	4,201.00	676.51		6	105, 103	1,997.00	315.31	
	17	46,836	865.00	140. 51 117. 74		8	35,021	665.00	105.06	
	20 26	39,245 42,115	725.00 777.00	117, 74 126, 35		10	35,040	666.00	105. 12	
Aug.	5	46 361	858.00	120. 35		11 11	35.670 46,398	698.00 882.00	107. 01 139. 19	
	10	37,400	630.00	112, 20		13	35,380	672.00	106.14	
	17	37,400 42,753 42,200	791.00	128 26		16	42,142	801.00	126.43	
	21 26	42,200 50 400	770.00 796.00	126, 60 151, 20		25 29	73, 147 46, 732	1,390.00 888.00	219.44 140.20	
	29	50,400 78,500	1,385.00	235. 50		May 2	46, 732 73, 117	1,389.00	140. 20 219. 35	
Sept.	5	51,600	942.00	154.80	\$12.90	8	35, 976	684.00	107. 93	
•	14	33,139	613.00	99, 42		11	73,722	1,401.00	221.17	
	21 23	43,461 42,800	804.00 856.00	130, 38 128, 40	· · · · · · · · ·	11	38,378	729.00	115. 13 127. 75	
	27	33,227	615.00	99, 68		14 16	42,575 36,588	809.00 695.00	109.76	
Oct.	4	42.302	783.00	126, 91		19	73,660	1,400.00	220.98	
	7	36,478	675.00	109. 43		21 21	50,781	965.00	152.34	
	7	40,680	753.00	122.04		21 21	36,576	695.00	109.73	
	7 14	31,163 37,400	577.00 648.00	93. 49 112. 20	9.35	21	36, 208 36, 843	688. 00 700. 00	108. 62 110. 53	
	26	64.500	1.129.00	193. 50	16. 13	23 23	83,388	1,534.00	250.16	
_	30	37,000	658.00	111.00	16. 13 9. 25	25	36,288	689.00	108.86	
Nov.	11	38,475	712.00	115. 43		28	38,880	778.00	116.64	7.97
	14 19	42,585 40,000	784.00 658.00	127. 16 120. 00		29	39,684	754.00	119.06	
Dec.	9	51,135	946. 00 879. 00	153. 41		Total	12, 186, 480	224, 333.00	36, 528. 93	235. 36
	9	47,511	879.00	142. 53		u	1	1	1	1

No importations during the period from January 1, 1907, to June 1, 1908, of filter masse or filter stock under paragraph 395 of the tariff act of 1897.

# PORT OF PLATTSBURG, N. Y.—Continued.

Pulp woods imported from Canada into the district of Champlain, port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908.

Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
1907.	Cords.		1907.	Cords.		1907. Jan. 29 29	Cords	
Jan. 2	30 12	\$90.00 66.00 50.00 66.00	Jan. 12	12	\$86.00	Jan. 29	12	\$66.00
2	12	66.00	12	24 20	96. 00 140. 00 72. 00	29 29	12	66. 00 90. 00
2	12	50.00	12	20 18	72.00	29	80	90.00
2	12	66.00	14	30	98.00	1 an I	80 50 20	320. 00 60. 00
2	12	66,00	14	30	96.00	30 30	30 1	90.00
2	12	66.00	14	101	98. 00 850. 00	30	30 18	00.00
2	12 12 30 20 12 12 20 20 122	66. 00 66. 00 90. 00 60. 00 66. 00	15	30 18 20	90. 00 72. 00 64. 00 274. 00 320. 00 250. 00 66. 00	30	18	99. 00 66. 00 50. 00 66. 00
2	20	60.00	15	18	72.00	30 30	12	66.00
2	12	66.00	15	46	274 00	30	12	86.00
2	20	70.00	16	46 80 50 12	320.00	30	12	66.00
2	20	90.00	16	50	250.00	81	24	90.00
2	122	566.00	17	12	66.00	31	20	60.00
2	211	66.00 70.00 90.00 566.00 904.00	17	12 12	66. 00	81	24 20 18 12	99.00
4	12	66.00	17	9	50.00	31	20	66.00
4	12	66.00	17	12	66, 00	31	20	60. 00 50. 00
4	12	66.00	17	18 25	99. 00 100. 00	31		60.00
4	211 51 12 12 12 12 12 9	66.00 66.00 50.00	17	25	100.00	31	20 20 23 12 12 12	70.00
4	9	50.00	17	175	939.00	Feb. 1	23	92.00
<b>7</b> ······	11 24	61. 90 96. 00	10	20 20 30 20 20 12	80. 00 80. 00 90. 00	1	12	66. 00 66. 00 66. 00
4	24 30 12 9	90.00	21	30	90.00	1	12	86.00
5	12	66.00	21	20	60. 00 60. 00 66. 00	1	ii	61.00
5	9	<b>50</b> . 00	21	20	60.00	1	12	66.00
5	20	60.00	21	12	66.00	1	12 12	66.00
2	20	77.00	21	11 12	61. 00 66. 00	1	12	66.00
7	18	90.00	21	12	66.00	1	20	60.00
7	30	90.00	21	12	66. 00 66. 00 99. 00	1	20 24	66. 00 60. 00 96. 00
7	20	60.00	21	12	66.00	1	16	64, 00
7	12	66.00	21 21	18	99.00	1	24	96.00
7	20 20 22 18 30 20 12 30 162 27 18 12	90. 00 66. 00 60. 00 60. 00 77. 00 90. 00 90. 00 66. 00 66. 00 66. 00 68. 00 68. 00	21	20 20	60. 00 80. 00	<del> </del>	24 23 335	92.00 1,263.00 90.00 60.00
8	20	80.00	21	111	464.00	1	30	1,203.00
8	27	81.00	21 22	20	80.00	i	30 20 40 12	60.00
8	18	99.00	22	20	80. 00 80. 00	2	40	160.00
8	12	66.00	22	20	80.00	4	12	66.00
8	12 12 10 12 12	80, 00 81, 00 99, 00 66, 00 66, 00	23	30	90. 00 90. 00	4	12 12	66, 00 66, 00 61, 00
8	10	52.00	23	30	90.00	7	11	81.00
8	12	66. Q0	23	27	81 AN	4	9	50, 00
8	12	66.00	23	30	90. 00 60. 00 72. 00	4	12	66.00
ğ	18 180	99.00	23	20	60.00	4	30	90.00
8	190	60.00	23	20	80.00	4	90	50.00
9	20 12	66, 00 66, 00 66, 00 99, 00 880, 00 60, 00 68, 00	23	20 20 30 30 30 27 30 24 20 72	60. 00 368. 00	4	30	90.00
9	10	30.00	24	12	66. 00 64. 00 96. 00 64. 00 70. 00	4	30 30 30 30 30 30 30 20	90. 00 90. 00 90. 00
9	10 10 20 20 40 20 30 212	55 00	24	16 30	64.00	4	30	00.00
8	10	55. 00 60. 00 70. 00 160. 00	24 24	30 16	96.00	<b>4</b>	30	90. 00 90. 00 90. 00 60. 00 83. 00
9	20	70.00	24	20	70.00	<u></u>	30	90.00
9	40	160.00	28	20 20 20 11 12	90.00	4	20	60.00
10	20	60.00	28	20	60.00	4	15	83.00
10	30	90.00	28 28	20	60.00	4	20 10	05.00
10	212	1,018.00	28	11	61.00 66.00	4	10	40.00
ii	12	66.00	28	12	66.00	5	20	789. UU
ii	12 12 35 30 20 20 30 12 12 12	60.00 90.00 1,018.00 50.00 66.00 66.00	28 28	12	66.00	5	20	789. 00 60. 00 60. 00 65. 00
11	35	140.00	28	12	66.00	5	20	65. 00
12	30	90.00	28	40	. 160.00	5	16	65.00
12 22	20	90. 00 80. 00 60. 00	28 29	40 201 20 30 20 20 20 20	986.00	ğ	24	96.00
12	20		29	30	60. 00 90. 00	ģ	199	890.00
12	12	66.00	29	20	60.00	6	20	90. 00 70. 00 60. 00
12	12	66.00	29	20	60.00	6	20 l	60.00
12	12	66.00	29	20	60.00	6	30	90.00
12	12 10 12	66, 00 66, 00 66, 00 66, 00 82, 00 66, 00	29 29		60. 00 50. 00 66. 00	6	177 20 20 20 16 24 139 20 20 20 30 12	60. 00 90. 00
12	IU I	04. UU	29	9 12	au. uu 1	0	au i	SU. 00

Pulp woods imported from Canada into the district of Champlain, port of Plattsburg. K. Y., during the period January 1, 1907, to June 1, 1908—Continued.

Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
1907. Feb. 6	Cords.	\$66.00	1907. Feb. 14	Cords.	<b>P40</b> 00	1907. Feb. 25	Corde.	
6	9	50.00	14	12	\$60.00 48.00	25	12	\$83.00 66.00
6	12	50.00 66.00 170.00	15	20	48. 00 80. 00	25 25	15 12 12 27 30 20 9	66.00
<u>6</u>	30	170.00	15	30	90.00	1 25	27	81.00 98.00
7 7	26	52.00 97.00 60.00	16	20	80.00	25 25	20	98.00 64.00
8	20	60.00	15	. 20	60.00	25	9	E0 00
8	12	66,00	15	33	99.00	25 25 25	12	66.00
8 8	24	90. 00 96. 00	16	29	90. 00 60. 00 99. 00 87. 00 70. 00	25	12 12	66.00 66.00 66.00
8	30	90.00	15	30	90.00	25	10	40.00
8 8	20	70.00	15	24	70.00 96.00 96.00 80.00 72.00 60.00 72.00 60.00	25	126 30 20 30 30 9	582.00 90.00
8	12	90. 00 66. 00	15	18	72.00	26 26 28 28	20	90.00
8 8	12	66.00	16	20	60.00	26	30	90.00
8 9	22	88.00	16	20	80.00	26	30	90.00
11	19	200.00	16	18	72.00 60.00		12	50. 00 66. 00
11	30	66. 00 90. 00 60. 00	16	20	60.00	26	12	66.00
11	20	60.00	16	20	60.00	26	12 12 12 72	66.00
11	20	60. 00 90. 00	16	20	88.00	26	72	66. <b>00</b> 282. <b>00</b>
11	30	96 00	18	20	80.00	26 26 26 26 26	9 1	50.00
11 11 11 11	12 26 26 22 12 12 22 22 20 20 20 20 20 20 20 20 20 20 20	90.00	16. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15	20 20 30 30 33 29 20 20 20 20 20 20 20 20 20 20 20 20 20	80. 00 80. 00 88. 00 80. 00 80. 00 90. 00 90. 00 90. 00 90. 00 90. 00 90. 00 90. 00	20	20 12 80 30 12 12 12 12	65, 00
11	31 20	90.00 65.00	18	10	90.00	26 26	80	48. 00 330. 00
ii	9	65. 00 50. 00	18 18 18 18 18	9	50.00	28 28 28	30	00.00
11	11	61.00	18	12	66.00	28	12	66.00 66.00 66.00 66.00
11	12	66.00 66.00	18	30	90.00	28	12	66.00
<b>i</b> 1	12 9 12	50. 00 66. 00	18	30	90.00	28	12	66.00
11	12	66.00	18	30	90.00	28	12	66.00
11	12	66.00	18	12 30 20 30 30 18 22	90.00	28 28 28 28 28	12	66.00 61.00
ii	12	66.00	18	88	88. 00 352. 00 661. 00	28	13	61. 00 72. 00
ii ii ii ii	12 10 12 12 10 12 30 10 12 17 15	54.00 66.00 66.00 55.00	18 18 18 18	153	661.00	28 28 Mar. 1	12 12 11 13 12 20 30 30 162 20 30 10 12 12	66.00
11 11 11 11 11 11 11	10	55.00 '	19 19 19 19 19	30 12	90.00 66.00	Mar. 1	30	60. 00 90. 00
11	30		19	9	50.00	i	30	90.00 90.00
11	10	55.00 66.00 94.00 60.00	19	12	66. 00 68. 00	1	30	90.00
11	12	94.00	19	12	80.00	2	102	667.00
<b>i</b> i	15	60.00	19 19 19 19	20 20 30 20 20 15 22	60. 00 65. 00	2	30	60.00 90.00
11	11	61. 00 68. 00 55. 00	19	30	90.00	2	20	60. 00 55. 00
11	12 10	55.00	19	20	60. 00 60. 00	2	12	66.00
11	12 12	66. 00 66. 00	19	15	83.00	2	12	66, 00
11	12 12	66.00		22	88.00	2	12	66.00
11	12	66.00	20	219	90.00	2	9	50.00
<u> </u>	12 257	66.00 1,015.00 66.00 66.00	20	219 20 20 20 30 20 30 20 20 20 20 20	83.00 88.00 1,058.00 90.00 60.00	2222222222222222	11	50, 00 50, 00 61, 00 66, 00 66, 00
12 12	12 12 12	66.00	20 20	20	60.00	2	12 12	66.00
12	12	66.00	20	20	64.00	2	12	66 OD
12 12	12 30 30	00.003	20 20 21 21 21 21 21 21 21	18	72.00	2	12 13	72.00
13 13	30	90.00 90.00	21	20	60.00	2	11	61.00 90.00
13	30 12	90. 00 90. 00 66. 00 83. 00 70. 00 88. 00	21	20	60.00	4	30	90, 00
13	12	66.00	21	20	60.00	4	20	64.00
18	12 15	83.00	21	20	60.00	<b>1</b> ·····	30	96.00 90.00
13 13 13	14	70.00	21	10	55.00	<b>i</b>	30	90.00 90.00
13	16	88.00	21	15	83.00	4	30	90.00
13 13	14 16 20 9	50.00	21	15 20	60.00 90.00 64.00 72.00 60.00 90.00 60.00 60.00 72.00 55.00 83.00 83.00	4	11 30 30 20 30 30 30 30 30 24 18 12	90.00 90.00
13 13	11	61.00 50.00 50.00	21 21	12	66.00	4	24	72.00 99.00
13	9	50.00	21 21 21	20	80.00 1,120.00	4	18	99.00
18	12	80.00	21 22	235 12	1, 120. 00 66. 00	<b>1</b>	12	66. 00 66. 00
18	12 12	66. 00 66. 00	22	12	66.00	4	12	66,00
18	12	66.00	22 22	30	86. 00 98. 00 99. 00	<b>4</b>	30	90.00
14	20	505. 00 60. 00	22	40	175.00	1	20	90.00 80.00
14	125 20 20 20	80. 00 60. 00	23	12 20 235 12 12 30 83 40 72	288.00	4	12 12 80 20 20 12	66.00 83.00
14	20 1	60.00 II	25	12	66.00	4	15	83.09

Pulp woods imported from Canada into the district of Champlain, port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

5. 30	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
6. 9		Cords.	een on	1907.	Cords.		1907.	Cords.	
6. 9	4	98	382.00	13	12	966.00	Mar. 19	30	\$90.00 80.00 736.00
6. 9 9 50.00 16. 12 68.00 25. 12 66.00 6. 12 68.00 16. 12 68.00 25. 20 66. 13 72.00 16. 10 55.00 25. 20 66. 12 68.00 16. 12 66.00 16. 12 66.00 25. 20 66. 12 66.00 16. 12 66.00 25. 20 66. 13 72.00 16. 12 66.00 25. 20 66. 13 72.00 16. 12 66.00 25. 20 66. 10 40.00 18. 9 50.00 25. 20 7. 20 80.00 18. 24 96.00 25. 30 7. 20 80.00 18. 24 96.00 25. 30 7. 20 80.00 18. 16 64.00 25. 30 7. 20 80.00 18. 16 64.00 25. 30 7. 20 60.00 18. 16 64.00 25. 12 7. 30 90.00 18. 30 90.00 25. 12 7. 30 90.00 18. 30 90.00 18. 30 90.00 25. 12 7. 30 90.00 18. 30 90.00 25. 16 8. 30 90.00 18. 30 90.00 25. 16 8. 30 90.00 18. 30 90.00 25. 16 8. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 25. 30 90.00 30 90.00 30 90.00 25. 30 90.00 25. 30 90.00 30 90.00 30 90.00 25. 30 90.00 30 90.00 30 90.00 25. 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 3	5	20	60.00	13	90	500.00		162	736.00
6. 9 9 50.00 16. 12 68.00 25. 12 66.00 6. 12 68.00 25. 20 66. 13 72.00 16. 10 55.00 25. 20 66. 12 68.00 16. 12 68.00 25. 20 66. 12 68.00 16. 12 68.00 25. 20 66. 12 68.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 7. 20 878 1,186.00 18. 9 50.00 25. 30 7. 20 80.00 18. 24 96.00 25. 30 7. 20 80.00 18. 24 96.00 25. 30 7. 20 80.00 18. 16 64.00 25. 12 7. 30 90.00 18. 16 64.00 25. 12 7. 30 90.00 18. 30 90.00 18. 30 90.00 25. 12 7. 30 90.00 18. 30 90.00 18. 30 90.00 25. 12 7. 30 90.00 18. 30 90.00 18. 30 90.00 25. 16 8. 30 90.00 18. 30 90.00 25. 16 8. 30 90.00 18. 12 86.00 25. 30 8. 30 90.00 18. 12 86.00 25. 30 8. 30 90.00 18. 12 86.00 25. 20 8. 30 90.00 18. 12 86.00 25. 20 8. 30 90.00 18. 12 86.00 25. 20 8. 30 90.00 18. 12 86.00 25. 20 9. 30 90.00 18. 12 86.00 25. 20 9. 30 90.00 18. 12 86.00 25. 20 9. 30 90.00 18. 12 86.00 25. 20 9. 30 90.00 18. 12 86.00 25. 20 9. 30 90.00 18. 12 86.00 25. 20 9. 30 90.00 18. 12 86.00 25. 20 9. 30 90.00 18. 12 86.00 25. 20 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 19. 30 90.00 27. 20 9. 30 90.00 19. 30 90.00 27. 20 90.00 19. 30 90.00 27. 20 90.00 19. 30 90.00 2	<u> </u>	20	60.00	14	15	83.00	21	20	64.00 96.00
6. 9 9 50.00 16. 12 68.00 25. 12 66.00 6. 12 68.00 25. 20 66. 13 72.00 16. 10 55.00 25. 20 66. 12 68.00 16. 12 68.00 25. 20 66. 12 68.00 16. 12 68.00 25. 20 66. 12 68.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 7. 20 878 1,186.00 18. 9 50.00 25. 30 7. 20 80.00 18. 24 96.00 25. 30 7. 20 80.00 18. 24 96.00 25. 30 7. 20 80.00 18. 16 64.00 25. 12 7. 30 90.00 18. 16 64.00 25. 12 7. 30 90.00 18. 30 90.00 18. 30 90.00 25. 12 7. 30 90.00 18. 30 90.00 18. 30 90.00 25. 12 7. 30 90.00 18. 30 90.00 18. 30 90.00 25. 16 8. 30 90.00 18. 30 90.00 25. 16 8. 30 90.00 18. 12 86.00 25. 30 8. 30 90.00 18. 12 86.00 25. 30 8. 30 90.00 18. 12 86.00 25. 20 8. 30 90.00 18. 12 86.00 25. 20 8. 30 90.00 18. 12 86.00 25. 20 8. 30 90.00 18. 12 86.00 25. 20 9. 30 90.00 18. 12 86.00 25. 20 9. 30 90.00 18. 12 86.00 25. 20 9. 30 90.00 18. 12 86.00 25. 20 9. 30 90.00 18. 12 86.00 25. 20 9. 30 90.00 18. 12 86.00 25. 20 9. 30 90.00 18. 12 86.00 25. 20 9. 30 90.00 18. 12 86.00 25. 20 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 19. 30 90.00 27. 20 9. 30 90.00 19. 30 90.00 27. 20 90.00 19. 30 90.00 27. 20 90.00 19. 30 90.00 2	5	30	90.00	14	12	66.00	21	24	96.00
6. 9 9 50.00 16. 12 68.00 25. 12 66.00 6. 12 68.00 16. 12 68.00 25. 20 66. 13 72.00 16. 10 55.00 25. 20 66. 12 68.00 16. 12 68.00 15. 12 68.00 25. 20 66. 12 68.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 7. 20 87. 196.00 18. 12 68.00 25. 20 7. 20 80.00 18. 24 96.00 25. 30 7. 20 80.00 18. 24 96.00 25. 30 7. 20 80.00 18. 16 64.00 25. 30 7. 20 80.00 18. 16 64.00 25. 12 7. 30 90.00 18. 30 90.00 18. 30 90.00 25. 12 7. 30 90.00 18. 30 90.00 18. 30 90.00 25. 12 7. 30 90.00 18. 30 90.00 18. 30 90.00 25. 16 8. 30 90.00 18. 30 90.00 25. 16 8. 30 90.00 18. 30 90.00 18. 30 90.00 25. 16 8. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 3	5	16	64.00	14	20	80.00	21	20	80.00
6. 9 9 50.00 16. 12 68.00 25. 12 66.00 6. 12 68.00 25. 20 66. 13 72.00 16. 10 55.00 25. 20 66. 12 68.00 16. 12 68.00 25. 20 66. 12 68.00 16. 12 68.00 25. 20 66. 12 68.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 7. 20 878 1,186.00 18. 9 50.00 25. 30 7. 20 80.00 18. 24 96.00 25. 30 7. 20 80.00 18. 24 96.00 25. 30 7. 20 80.00 18. 16 64.00 25. 12 7. 30 90.00 18. 16 64.00 25. 12 7. 30 90.00 18. 30 90.00 18. 30 90.00 25. 12 7. 30 90.00 18. 30 90.00 18. 30 90.00 25. 12 7. 30 90.00 18. 30 90.00 18. 30 90.00 25. 16 8. 30 90.00 18. 30 90.00 25. 16 8. 30 90.00 18. 12 86.00 25. 30 8. 30 90.00 18. 12 86.00 25. 30 8. 30 90.00 18. 12 86.00 25. 20 8. 30 90.00 18. 12 86.00 25. 20 8. 30 90.00 18. 12 86.00 25. 20 8. 30 90.00 18. 12 86.00 25. 20 9. 30 90.00 18. 12 86.00 25. 20 9. 30 90.00 18. 12 86.00 25. 20 9. 30 90.00 18. 12 86.00 25. 20 9. 30 90.00 18. 12 86.00 25. 20 9. 30 90.00 18. 12 86.00 25. 20 9. 30 90.00 18. 12 86.00 25. 20 9. 30 90.00 18. 12 86.00 25. 20 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 25. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 18. 12 86.00 27. 12 9. 30 90.00 19. 30 90.00 27. 20 9. 30 90.00 19. 30 90.00 27. 20 90.00 19. 30 90.00 27. 20 90.00 19. 30 90.00 2	<b>5</b>	20	80.00	14	80	90.00	21	30	80. 00 120. 00
6. 9 9 50.00 16. 12 68.00 25. 12 66.00 6. 12 68.00 16. 12 68.00 25. 20 66. 13 72.00 16. 10 55.00 25. 20 66. 12 68.00 16. 12 68.00 15. 12 68.00 25. 20 66. 12 68.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 7. 20 87. 196.00 18. 12 68.00 25. 20 7. 20 80.00 18. 24 96.00 25. 30 7. 20 80.00 18. 24 96.00 25. 30 7. 20 80.00 18. 16 64.00 25. 30 7. 20 80.00 18. 16 64.00 25. 12 7. 30 90.00 18. 30 90.00 18. 30 90.00 25. 12 7. 30 90.00 18. 30 90.00 18. 30 90.00 25. 12 7. 30 90.00 18. 30 90.00 18. 30 90.00 25. 16 8. 30 90.00 18. 30 90.00 25. 16 8. 30 90.00 18. 30 90.00 18. 30 90.00 25. 16 8. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 3	5	20	60.00	14	30	96.00	22	20	60. 00 90. 00
6. 9 9 50.00 16. 12 68.00 25. 12 66.00 6. 12 68.00 16. 12 68.00 25. 20 66. 13 72.00 16. 10 55.00 25. 20 66. 12 68.00 16. 12 68.00 15. 12 68.00 25. 20 66. 12 68.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 7. 20 87. 196.00 18. 12 68.00 25. 20 7. 20 80.00 18. 24 96.00 25. 30 7. 20 80.00 18. 24 96.00 25. 30 7. 20 80.00 18. 16 64.00 25. 30 7. 20 80.00 18. 16 64.00 25. 12 7. 30 90.00 18. 30 90.00 18. 30 90.00 25. 12 7. 30 90.00 18. 30 90.00 18. 30 90.00 25. 12 7. 30 90.00 18. 30 90.00 18. 30 90.00 25. 16 8. 30 90.00 18. 30 90.00 25. 16 8. 30 90.00 18. 30 90.00 18. 30 90.00 25. 16 8. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 3	5	20	60.00	14	32	36.00	22	30	90.00
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6. 9 9 50.00 16. 12 68.00 25. 12 66.00 6. 12 68.00 16. 12 68.00 25. 20 66. 13 72.00 16. 10 55.00 25. 20 66. 12 68.00 16. 12 68.00 15. 12 68.00 25. 20 66. 12 68.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 66. 13 72.00 16. 12 68.00 25. 20 7. 20 87. 196.00 18. 12 68.00 25. 20 7. 20 80.00 18. 24 96.00 25. 30 7. 20 80.00 18. 24 96.00 25. 30 7. 20 80.00 18. 16 64.00 25. 30 7. 20 80.00 18. 16 64.00 25. 12 7. 30 90.00 18. 30 90.00 18. 30 90.00 25. 12 7. 30 90.00 18. 30 90.00 18. 30 90.00 25. 12 7. 30 90.00 18. 30 90.00 18. 30 90.00 25. 16 8. 30 90.00 18. 30 90.00 25. 16 8. 30 90.00 18. 30 90.00 18. 30 90.00 25. 16 8. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 25. 30 90.00 18. 30 90.00 25. 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 30 90.00 3	6	20	60.00	16	11	61.00	23	30	90.00
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7. 20 80.00 18. 24 96.00 25 30 8 9 90.00 18. 16 64.00 25 12 12 12 12 12 12 12 12 12 12 12 12 12	<b>Q</b>	13	72.00	16	10	55.00	25	30	90. 00 60. 00
7. 20 80.00 18. 24 96.00 25 30 8 9 90.00 18. 16 64.00 25 12 12 12 12 12 12 12 12 12 12 12 12 12	6	12	66.00	16	12	66.00	25	20	60.00
7. 20 80.00 18. 24 96.00 25 30 8 9 90.00 18. 16 64.00 25 12 12 12 12 12 12 12 12 12 12 12 12 12	6	13	72.00	16	12	66.00	25	30	60. 00 90. 06 60. 00
7. 20 80.00 18. 24 96.00 25 30 8 9 90.00 18. 16 64.00 25 12 12 12 12 12 12 12 12 12 12 12 12 12	6	10	40.00	16	9	50.00	25	20	60.00
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Pulp woods imported from Canada into the district of Champlain, port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
1907.	Cords.		1907.	Cords	201 00	1907. Apr. 15	Cords.	
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30	20	354. 00 60. 00	8	30	90.00	15	16	64. 00
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		90.00	15		66.00	22	20	

Pulp woods imported from Canada into the district of Champlain, port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

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Date of arrival.	Quan- tity.	Value.	Date of arrival	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
1907.	Cords.		1907.	Cords.		1907.	Cords.	
A pr. 22 22	12 12	\$66.00	Apr. 30	20 20 20 30	\$60.00	May 11	20	<b>\$</b> 70. <b>0</b> 0
22	12	66.00 72.00 77.00 44.00	30 30	20	60.00 80.00	11 11	20 20 112 112 120 20 30 30 30 20 20 20 20 20 20 20 20 20 20 20 20 20	80.00 84.00 66.00 60.00 60.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00
22 22	13 14	77.00	30	30	90.00	11	12	66.00
22 22	8 12 9	44.00	30	9	50.00	11	12	66.00
22	13	66.00	30	20	80.00	11	20	66.00
22	30	50.00 98.00	30 May 1	20 24 20 20 20 20 20 20 20 20 20 20 20 20 20	98. 00 60. 00	13	20	60.00
22	20	60. 00 60. 00	1	20	60. 00 60. 00	13	30	90.00
22 22	30 20 20 10 24 16 326 20 20 12 12 13	# #0.00 l	1	20	60.00	13	30	90.00
92	24	96.00 64.00 1,442.00 60.00	i	20	60. 00 70. 00 60. 00 90. 00	13	10	55.00
22 22	16	64.00	1	20	70.00	13	20	80.00
23	20	60.00	1	20	90.00	13	20	80.00
23 23	20	60.00 66.00	i	93	346.00 90.00 344.00	13	20	60.00
23	12	66.00 66.00	2	30	90.00	13	20	80.00
23	13	72.00	3	20	98.00	13	10	40.00
23	12	72. 00 66. 00	3	20	98. 00 65. 00	13	30	98.00
23 24	9	50.00 96.00	3	20	60.00	13	30	90.00
24	24 16	64.00	3	24	60.00 72.00	13	20	90.00 64.00
24 24	8	32.00	8	24 12	66. 00 72. 00	13	20	60.00
24	20	64. 00 32. 00 60. 00 60. 00	3	13	72.00	13	20	80.00
24 24 24	20	60.00	3	18 18	99. 00 99. 00	13	66	702.00 274.00
24	20	80.00 90.00	3	12 12	66. 00 66. 00	15	28	84.00
24 24	30	90.00	3	12	66.00	15	30	90.00
25	30	62. 00 90. 00	4	20 20 20 16	60.00 60.00	15	30	90.00
25 25	10	45.00	4	20	60.00 80.00	15	20	60.00
25	12	45.00 66.00 66.00	4	16	64.00 70.00	16	30	98.00
25 25 25	12	66.00	6	30	90.00	16	30	90.00
25	12	66. 00 66. 00	3 3 3 3 3 3 3 4 4 4 4 4 4 6 6 6 6 6 6 6	20 30 30 30 30 20 30 24 12	90.00	16	40	70.00 90.00 60.00 98.00 90.00 160.00 66.00 68.00
25 25	12	66. 00 359. 00	6	30	90.00 90.00	17	20	60.00
26	20	60.00	6	20	60.00	17	12	66.00
26 26 26	30	90.00 96.00	6	30	98.00	17	12	68.00
26	24	96.00	6	24	96.00 66.00	17	12	66.00
26	13	96.00 60.00 72.00 94.00 77.00 80.00 90.00 90.00	6	20	60.00	17	30	120.00
26	17	94.00	6	20 30	60. 00 90. 00	18	10	66. 00 66. 00 120. 00 60. 00 100. 00 64. 00 64. 00 90. 00
26 26	20	90.00	6	30 16	96. 00 96. 00 64. 00 807. 00 70. 00	18	20	100.00
26	30	90.00	6	16	64.00	18	20	60.00
26	30	90.00	6	216	807.00	18	20	64.00
27	72	239.00 90.00	7	20 10	70.00 45.00	18	20	90.00
<b>27</b>	30	90.00	7	20	45. 00 60. 00	18	12	66.00
27 29	10	40.00	7	20 20 24	64. 00 96. 00 66. 00	18	66 280 200 300 300 300 300 300 112 112 113 100 200 200 201 201 201 201 201 201 201	72.00
29	20	60.00	7	1 12	66.00	18	13	77.00 72.00
29	12	66.00	7	12 12	66. 00 66. 00	18	11 20	61.00
29 29	12	66.00	7	12	66.00	18	20	60.00
29	20	90.00 40.00 45.00 60.00 66.00 80.00	7	12 12	66. 00 66. 00	11 11 11 13 13 13 13 13 13 13 13 13 13 1	134 105	90. 00 66. 00 72. 00 77. 00 61. 00 60. 00 724. 00
29	20	60.00	7	30	90.00	20	117	
29	14	77.00	7	30 30 30 20 24	90.00 90.00	20	121 121	605. 00 607. 00
20	12	66.00	8	20	65.00	20	30	90.00
29 29	30	90.00	8	24	65. 00 96. 00	20	20	60.00
29 29	13	60. 00 77. 00 50. 00 66. 00 90. 00 72. 00 96. 00 96. 00 90. 00	8	16	64.00 64.00 64.00	20	30 20 13 30 8 20 30 20 30 20 30 80	70.00
29	24	96.00	8	16 16	64.00	20	8	<b>3</b> 2.00
20	30	90.00	8	20	60.00 60.00 65.00 842.00	20	20	60.00
20	20	80.00	8	20	60.00	20	20	90.00
<b>2</b> 0	20	80.00	9	98	842.00	20	30	90.00
29	168	835.00	10	20	64. 00 60. 00	20 20	30	90.00
<b>30</b>	1 20	80.00	10	20	60.00	20	20	70.00 44.00
<b>30</b>	20 20 20 20 20 18 18 10 112 112 112 12 20 20 20 30 17 17 12 20 30 30 10 10 20 20 20 20 30 30 10 20 20 30 30 30 30 30 30 30 30 30 30 30 30 30	80.00 80.00 85.00 535.00 64.00 96.00	10	20 20 20 98 20 20 20 30	90.00	l 20 ·	12	66. 00
<b>20</b>	30	96.00	10	89	90. 00 87. 00 60. 00	20 20	10 12	90. 00 60. 00 90. 00 32. 00 60. 00 90. 00 90. 00 90. 00 90. 00 44. 00 66. 00 66. 00
<b>20.</b>	20	1 60.00	11	20	<b>60.00</b> l	i 20		60.00

Pulp woods imported from Canada into the district of Champlain, port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

				u 11 <del>00</del> 0	· duty.j			
Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
1907.	Cords.		1907.	Cords.		1907.	Cords.	
May 20	20	\$60.00	May 27 27	20	\$60.00	June 3	367	\$1,721.00
20	30 305	90.00 1,120.00	27 28	286 120	1,030.00 629.00	4	179 34	720.00 135.00
21	137	589.00	28	118	637.00	5	90 86	518.00
22	145	1 498.00	28	84	I 836.00 I	5	86	518.00
22 22	. 8 10	32.00 55.00	28 28	85 145	340.00 783.00	5	110 116	548.00 581.00
22 22	30	55.00 96.00	28 28 28 28 28 28	124	609.00 [	5	112	559.00
22	. 30 . 30 29 20	98.00	28	100	600.00	5	84	505.00
22 22	20	87. 00 80. 00	28	100 104	600.00 519.00	<u>5</u>	116 82	581.00 492.00
22	24	96. 00 64. 00	28	30 20	90.00	5	80	480.00
22 22	16	64.00 60.00	28 28 28 29	20 14	80.00 77.00	5	123 108	738.00
22	20	60.00	28	9	50.00	5	101	648. 00 504. 00
22	20	60.00 60.00	28	12	66.00	5	120	600.00
22 23	20	60.00		12 12	66.00 66.00	5	120 30 30	90.00
23	24 16 20 20 20 20 100 100	600.00 600.00	28 28 28 29	12	66.00	5	20	80.00
23 23	111	666.00	28	364	1,277.00	6	161	576.00
23 23	110 84	660.00 487.00	29	144 20	488.00 80.00	6	20 30	60.00
23	81	493.00 493.00	40	101	455.00	6	201	98. 00 60. 00
23	85	493.00	30	118	590.00 625.00	6	30 118	90.00
23 23	121 125	606.00 884.00	30	125 132	660.00	7	113	590. <b>00</b> 565. <b>00</b>
23	118	561.00	30	125	625, 00	5	30	96.00
23	118 98 67	392.00 268.00	30 30	97 120	484.00 597.00	7	25 28	75.00
23 24	20	70.00	30	118	591.00	7	20	84. <b>00</b> 60. <b>00</b>
24	30	90.00	1 30	126	630.00	7	121	411.00
24 24	30	90.00 60.00	30	118 105	708.00 630.00	8	30 9	90.00 50.00
24	20 30 30 20 20	65.00	30	100	600.00	8	10	52.00
24	162	682.00		80	480.00	10	118	590.00
25 25	123 120	615.00 602.00	30 30 30 30	10 16	30.00 64.00	10	120 124	600. <b>00</b> 620. <b>00</b>
25	121 125	606.00	30	20	100.00	10	98 30	559.00
25 25	125	675.00 360.00	30	20 20 20 30 20 30 30 30	64. 00 64. 00	10	98	593.00 90.00
25	90 84 82 80	336.00 332.00	30 30 31	30	90:00	10	12	66,00
25 25 25 25	82	332.00	30	20	60.00	10	12	66.00
25 25	123	320.00 615.00	31	30	90.00 90.00	10	10 10	40.00 30.00
25	118	590.00	31 31	30	90.00	10	20 24 30	60.00
25	118 122	500.00	31 June 1	194	686.00 80.00	10	24	72. 00 96. 00
25 25	20	610.00 60.00	1	20	60.00	10	20	60.00
25	20	60.00	1	16	64.00	10	30	90.00
25 25	24	96.00 64.00	June 1 1 1	194 20 20 16 20 20 12	<b>60.</b> 00 <b>6</b> 0. 00	10	20 30 24 16	96.00 64.00
25	20	64.00	i	12	<b>6</b> 6.00	10	9	50.00
25 25	20	64.00 64.00	1	13 12	72.00 66.00	10	12 16	66. 00 64. 00
25	20	76.00 1	i	290	1,140.00	10	80	90.00
25	20 20 24 20 20 20 20 20 16 20 10 8	64.00 60.00 60.00 45.00	1 3	10	30.00	10	80 80 12	96.00
25 25	20	60.00	3	20 20 20	70.00 60.00	10	12	66.00 66.00
25	10	45.00	3	20	60.00	10	10	40.00
27	8	1 362.00 1	3	12 9	66.00	10	512	2, 267. 00 492. 00
27	30	60. 00 90. 00	3	12	50.00 66.00	11	102 20	90. 00 96. 00
27	30	90.00	3	126	756.00	11	30 30	96.00
27	30	90.00 66.00	3	84 100	504. 00 500. 00	8 8 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 11 12 12 12 12 12 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13	129 130	774-00 780-00
27	20	60.00	3	100	501.00	12	130 134	804.00
27	20	60.00	3	115 124	575.00 <b>62</b> 0.00	12	114 115	684. 00 690. 00
27	20 20	98.00 90.00	3	118	590.00	12	108	648.00
27	30	90.00 90.00	3	118 30 10	90.00	12	216	797.00
27	30 16	98.00 64.00	3	10	30.00 60.00	13 13	96 12	384.00 48.00
27	20 30 30 30 12 20 20 30 30 30 16 24	96.00	3	30	90.00	1 14 1	113	415.00
27 27	30 30	90.00 90.00	<b>§</b>	20 30 20 20	60.00 60.00	14	16	64.00
41	, 40					420000		

Pulp woods imported from Canada into the district of Champlain, port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value,
1907.	Cords.		1907.	Cords.		1907.	Cords.	
June 14	30 30	<b>890.0</b> 0	June 21	133 133	\$532.00 532.00	June 27 27 28 29	30	<b>\$9</b> 0. <b>00</b>
14 14	12	90.00	21 21	107	749.00	24	20 12 20 20 120	90.00 66.00
14	12 12	66.00	21	100	700. UU	20	20	60.00
14	9	66. 00 66. 00 50. 00	21 21	112	784.00		20	60.00
15	122	610.00	l 91	113	791.00	29 29 29 29	120	600.00
15	114	570.00	21	108	756. 00 90. 00	29	120	600.00
15	110	551.00	21 21 22	30 20 20	90.00	29	125	625. 00
15	120	602.00	22	20	70.00	29	129.	645.00
15	107	535, 00 324, 00	22 22	20 30	60. 00 90. 00	July 1	111	555.00
15 15	81 80	320.00	1 20	12	66.00	1	111	555. 00 328. 00
18 1	105	525.00 ·	1 23	20	60.00	i	82 83 73	332.00
15	104	525.00 521.00	23 24	24	96.00	i	73	292.00
15	118	590.00	24	10	30.00	1	77	308.00
15 15 16 15	127 130	635. 00 650. 00 70. 00	24 24	12	66. 00 50. 00 60. 00 508. 00	1	111	444.00
15	130	650.00	24	9	50.00	1	112	563.00
15	20	70.00	24	20 102	500.00	ļ	117	468.00
15	30	96. 00 90. 00	24	103	514.00	1	106 111	424.00 444.00
15	30	90.00	24 24	140	560.00	1 1 1 1 1 1	107	428.00
15 15 17 17	20 30 30 10 20 30 20 30 30 30	40.00	1 24	127	· 508.00	i	108	432.00
17	20	40. 00 60. 00	24	131	524.00	1	95	380.00
17	30	(an nn )	24	93	524.00 372.00	1	90	360.00
	20	60. 00 90. 00 90. 00	24	85	340.00	1	121	847.00
17	30	90.00	24 24 24	127	634.00	1	100	700.00
17	30	90.00	24	125	630.00	1	109	763.00
17 17 17 17 17	30	90.00	24	10 20	30. 00 60. 00	4	115 112	905. 00 784. 00
17	276	70.00 1,245.00 645.00 60.00	24	20	70.00	1	108	756.00
18	167	645.00	94	10	66.00	1	117	819.00
18	20	60.00	24	12	66.00	i	108	756.00
18	20	60.00	24 24 24	9	<b>50</b> . 00	1	110	
19	114	798. 00 376. 00	24	20	l an no	1	10	30.00
19	94 92	376.00	24	149 130	652. 00 616. 00 100. 00	1	30	770.00 30.00 90.00 1,663.00 318.00 90.00 90.00 45.00 400.00 444.00
19	923	368.00	25	130	616.00	1	401	1,663.00
19 19	88 105	352, 00 527, 00	25 25	20 131	100.00	2	72	318-00
19	114	570.00	25	131	917. 00 917. 00	2	20 30 30	90.00
19	118	570. 00 591. 00 634. 00	25 25	127	889. 00 875. 00 721. 00 504. 00 500. 00	2	30	90.00
19	127	634.00	25	125	875.00	2	10	45.00
19	123	861.00	25	103	721.00	2	100	400.00
19	117	819.00	25	126	504.00	2	105	420.00
19	117	819.00		125	500.00	2	111	444.00
19 19	122 111	819.00 554.00 877.00	25 25	119 117	476.00	2	100 104	400.00 416.00
19	190	840.00	25	156	468.00 1.002.00	2	104	418.00
19	20	840. 00 70. 00	25	126	882.00	2	104	416.00
19	20	90.00	25	106	424.00	2	75	300.00
19	120 20 20 30 30	90.00	1 25	120	1,092.00 882.00 424.00 480.00	2	78	416. 00 416. 00 300. 00 312. 00
19	30	90. 00 90. 00 90. 00	26	10	30.00	2	76	304.00
19	34 120 125	90.00 136.00 600.00 625.00 730.00 90.00	26	30	90.00	2	74 81 77 76 83 30 20 20 82	296.00
20 20	120	600.00	26 26	107	428.00 528.00	2	81	324.00 308.00 304.00 332.00
20	146 10 30 20 20	730.00	26	132 123	402.00	2	76	204.00
20	10	20.00	26	126	504.00	2	83	332.00
20	30	90.00	26	123	504.00 492.00 412.00	3	30	90. an
20	20	60.00	26	103	412.00	3	20	70.00 70.00 433.00
20	20	60.00	26	114	456.00	8	20	70.00
20	138	638.00	26	115	4841 (8)	3	82	433.00
21	150	550.00	26	128	896. 00 896. 00 903. 00	4	106	539.00 599.00
21 21	104	423.00	26 26	128	896.00	<b>!</b> ••••••	120	209.00
21	138 150 104 108 92 86 88 92	90. 00 60. 00 63.8. 00 550. 00 423. 00 541. 00 368. 00 344. 00	26	129 122		<u> </u>	114 101	798.00
21	96	844.00	26	112	784.00	ā	92	404.00 368.00
21	88	852,00	26	103	721.00	4	120	840.00
21	92	368.00	26	131	653.00	4	126	840. 00 884. 00
21	89	356, 00	26	125	627.00	4	131	917.00
21	111	368. 00 356. 00 554. 00 586. 00	26	115	784. 00 721. 00 653. 00 627. 00 674. 00	ր ・ •ֈ	122	854.00
21	117 101	586.00	26	122	608. 00 324. 00 312. 00	<b>1</b>	118	585.00
21	101	707. 00 436. 00	26 26	81 78	212.00	3	121	608.00 284.00
21	110	440 00	26	125	530.00	7:-:-	71 87 60	348.00
21	110	440.00 440.00 480.00	27	12	66.00	1	60	276.00
21	120	490.00	27	1 12	88.00	i i	1 12	66.09

Pulp woods imported from Canada into the district of Champlain, port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

err	te of	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
	07.	Cords.	000.00	1907.	Cords.		1907.	Cards.	
July		20 118	\$60.00 590.00	July 12 12	126 102	\$756.00 408.00	July 19	124 112	\$620.00 784.00
	4	120	400 00	12	93	372.00	19 19	111	777.00
	5	16	64.00 839.00 1,003.00	12	110	640.00	19	110	715, 00
	5	181	839.00	1 12	109	640. 00 653. 00	19 19 19 19 19 19 19 19 19	132 111	858.00
	6	192	1,003.00	12 12	74	370.00	19	111	555, 00
	8	243	1, 139.00	12	68	340.00	19	113	563. <b>00</b>
	8	12 18 30 20 12	66.00	12	67 70	335.00	19	106	529.00
	8	12	99.00 90.00	12 12	72	350.00 360.00	19	115 20	574. 00 60. 00
	8	20	60.00	12	63	315.00	19	30	90.00
	8	12	66.00	12 12	71	355.00	19	30	90.00
	8	18 30	99.00	12	69	345.00	19	30 12	66, 00
	8	30	90.00	12	75	375.00	19	12	66, 00
	8	111	444.00	12	113	563. 00	19 19 20	18	99.00
	8	116	464.00	12	117	<b>58</b> 5. <b>0</b> 0	19	18	99.00
	8	113 119	452.00 476.00	13	10 20	45. 00 65. 00	20	12 12	66. 00 66. 00
	8	119	476.00	13 13	160	844. 00	22	112	728.00
	8	105	420.00	15	30	90.00	22	127	826.00
		107	424.00	15	20	60.00	22	127 109	709.00
	8	102	408.00	15	20	60.00	22	112	728.00
	8	124	622.00	15 15 15 15	132	660.00	22	104	676.00
	8	110	551.00	15	98	491.00	22	109	709.00
	8	112	560.00		68	340.00	22 22 22 22 22 22 22 22	127 122	826.00
	8	112	672.00	15 15 15 15	69	345. 00	22	122	793. 00
	8	97	448.UU ,	15	78	390.00	22	124	906. 00
	8	96 78	304. 00 312. 00	, 15	72 77	360. 00 ₁ 385. 00	22	111	722.00 425.00
	8	75	300.00		75	375. 00 i	22 22 22 22	85 77	385.00
	8	120	840.00	15	120	480.00	22	Ri l	405, 00
	8	30	90.00	15	92	368. 00	22	72	365.00
	9	30 126	625.00	10	110	440.00	22	74	370.00
	9	120	600.00	15	120	480.00	22	81 72 74 74	370.00
	9	122	610.00	15	123 127	492.00	22	82	410.00
	9	101	404.00 436.00	15	127	762.00	22	71	355.00
	9	109	450.00	15 15 15	130	780.00	22 22 22 22	83	415.00
	9	113 111	452.00   444.00	15	111	444. 00 480. 00		66 121	330.00
	ğ	125	500.00	15 15	120 119	774.00	22	115	608. 00 574. 00
	9	117	468.00	15	124	806.00	22	30	90.00
	9	114	468, 00 456, 00	15	113	735. 00	22	30	90.00
	9	105	420.00	15 15 15	116	754.00	22 22 22 22	30	60.00
	9	126	630, 00	10	30	90.00	22	30 20 20 30 20 20 30 83 91	60.00
	9	113	563.00	15	20	60.00	22 22 22 22	20	60, 00
	9	75	375. 00 375. 00	15 15 15 16	12	66.00	22	30	90.00
	9	75 75 70	375.00 375.00	15	12	66. 00 50. 00	95	20	65, 00 60, 00
	9 . !	70	375.00	15	128	542.00	22	30	90.00
	9	82	410.00 /	16	164	926.00	22 22 22	83	439.00
	V	85	410.00		12	66.00	22	91	475.00
	9	82 85 30 30	90.00	17 17 17 17	85	447.00	22	83	431.00
	9	30	98.00	17	91	481.00	22	140 403	700.00
	9	30	90.00	17	82	426.00	22	403	1,809.00
	9	60 218	220.00 1,015.00	17	10	64.00	22 23 23 24 24 24 25	30 20	90.00
	11	26	144.00	1,	30 30	90.00   90.00	92	328	60, 00 1, 853, 00
	12	36 20	92.00	17	30	90.00	24	8	32.00
	12 12	232	1. 246. 00	i7	20	65.00	24	30	90.00
	12	10 20	40.00	17	16	64.00	25	116	754.00
	12	20	<b>6</b> 0. 00 j	17	116	754 00 1		126	819.00
	12 12	118	<b>5</b> 90. (0)	17	103	670.00	≀ 25l	117	761.00
	12	118 129	590.00	17	74	370, 00 1	25	116	754.00
	12 12	129	645.00	17	80	400.00	25	119	773.00
	12 12	121 126	605. 00 630. 00	17 17 17 17 17	104	649. 00	25 25	114	741.00 696.00
	12	115	575. 00	17	95 77	491.00 459.00	25	107 117	761. 00
	12	119	595. <b>0</b> 0	17 17 17 17 18	83	507. 00	25	118	767.00
	12	119	595.00	17	83 10	55.00	25	118 129	903. 00
	12	107	536.00	18	30	90.00	25	131	917. 00
	12	107	532.00	18	30	90.00	20	127	RRQ. 00
	12	107	533.00	18	30	90.00	25	77	285, 00
	12	104	520.00	18	27	81.00	25	115 155	574. 00 675. 00
	12	120	720.00	18	20	60.00	25	155	675. 00
	12	107	642.00 <b>792.</b> 00	18 <b>19</b>	207	1,018.00 446.00	25	119 120	596. 00 600. 00

Pulp woods imported from Canada into the district of Champlain, port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

Date of	Quan-		Date of	Quan-		Date of	Quan-	
arrival.	tity.	Value.	arrival.	tity.	Value.	arrival.	tity.	Value.
1907.	Cords.		1907.	Cords.		1907.	Corde.	
1907. July 25 25	115 10	\$575, 00 40, 00	Aug. i	10 20	<b>\$30.00</b> 60.00	Aug. 6	68	\$340.00 865.00
25	20	60.00	1	20	50.00	6	78 74	870. 00
25	20	90, 00	1	107	695, 00	6	74	870.00
25	30 30 18	90.00	1	127	826. 00 722. 00	6	71	855.00
25 25	30 18	90. 00 99. 00	1	111 117	761.00	6	70 71	350. 00 355. 00
25	18	99.00	i	113	735. 00	6	80	400.00
25	20 12	60.00	1	117	761.00	6	80 20	60.00
25 25	12 12	66.00	1	119 109	774.00 709.00	7	16 92	88. 00 460. 00
25	131	66. 00 653. 00	i	121	847.00	8	128	640.00
28	136	669.00	i	121	847.00	8	115	574. 00
26 28 26	20 24 20 20	60.00	1	74	370.00	8	112	563, 00
28	24	72.00 60.00		71 72	355. 00 360. 00	8	115	748. 00 637. 00
26	20	60.00	i	93	495.00	8 8 8	98 105	683.00
26 26	30	90,00	2	143	926.00	8	111	722, 00
27	107	592.00	2	20 30	60.00	8	112	728.00
29 29 29	198	1,072.00 488.00	2	30	90. 00 90. 00	ğ	114 20	741. 00 60. 00
29	98 91	455, 00	3	122	793.00	8	151	859.00
29 29	130	650.00	3	107	696, 00	9	157	974.00
29	99	644.00	3	119	774. 00 689. 00	9	12 20	66.00
29 29	112 104	728.00 676.00	3 8 3 3	106 111	722.00	ğ	24	60.00 72.00
29 29	100	650.00	3	96	624.00	10	20 1	60.00
29	115 103	748. 00 670. 00	3	90	630.00	12	80	440. 00 270. 00
29 29	103 104	670.00 676.00	3	111 118	777.00	12 12	60 60	270.00
29	113	735.00	3	105	826. 00 525. 00	12	116	270. 00 580. 00
29	131	653.00	3	119	595.00	12	119	595.00
29 29 29	131	653.00	3	68	340.00	12	121	605.00
29 29	71	855. 00 405. 00	3 3	75 74	375. 00 370. 00	12 12	103 101	515. 00 505. 00
29	71 81 70	350.00	3	72	860.00	12	96	485.00
29	I 69	845.00	3	75	375. 00 350. 00	12	96 99	495.00
29 29	72	3+0.00 370.00	3	70	850.00	12	78	390.00
29	74 75 72 76 76	875. 00	3	70 79	350. 00 360. 00	12	77 76	885. 00 880. 00
29	72	365.00	3	72 77	385, 00	12	115	574.00
29	76	380.00	3	73	365.00	12	103	513.00
29 29	76	880. 00 60. 00	3	73 110	365. 00 551. 00	12 12	78 75	890. 00 875. 00
29 29	<b>20</b> 70	350.00	3	30	90.00	12	118	767.00
29	73 69	365, 00	3	30	90.00	12	127	<b>826</b> . 00
29 29	69	845.00	3 3	9	80.00	12 12	104	676.00
29	71 73	355.00 365.00	1 2	10 115	34.00 865.00	12	114 132	741.00 858.00
29	73 76 80	380.00	5	118	600,00 i	12 12	141	787. 00
29	80	400.00	5	126	630.00	12	141 117	819.00
29 29	109 110	709.00 715.00	5 5 5 5	86 90	538. 00	12 12	114	798.00
29	110	715.00 715.00	8	20	\$56.00 60.00	12	125 122	875. 00 854. 00
29	92	<b>5</b> 98.00	5	20 30	60. 00 90. 00	10	97	679.00
29 29 29	109	709.00	5 5	30	90.00	12 12	20	50. 00 2, 810. 00
29	35 117	175. 00 585. 00	<u> </u>	10 30	35. 00 90. 00	12	396	2,810.00 135.00
29	119	<b>5</b> 95. 00	5	20	60.00	13	10	30.00
29 29 29	115	575.00	5 5	30	90. 00 90. 00	13	30 10 20	60.00
29 29	20	60. 00 60. 00	5	30	90.00	1 12	43	256.00
29	20	60.00	B	30 167	90. 00 871. 00	14	125 109	813. 00 709. 00
29	20 20 20 30 10 16	90.00 55.00	5 5 6 6	261	1,497.00	14 14 14 14	169	1,099.00
29	10	55.00	6	126	819.00	14	178 126	1, 157. 00
29 30	16 12	64.00 66.00	<u> </u>	116 110	754.00	14	126	882.00
30	30	90.00	6	110	715. 00 754. 00	14	122	854. 00 385. 00
30	30 20 20	. 68.00	6	111	722.00	14	77 72	360.00
<b>3</b> 0	20	1 60.00	6	121	787.00 l	14	71	355.00
30	8 20	32.00 70.00	6	117 124	819.00 619.00	14	82	410.00
81	20	60,00	6	85 87	425. 00 435. 00	14 14 15	80 104	400. 00 520. 00
81	20	80.00					22	

Pulp woods imported from Canada into the district of Champlain, port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
1907.	Cords.		1907.	Cords.		1907.	Cords.	
Aug. 15	105	\$682,00	Aug. 21	72	\$365.00	Aug. 26	78	\$365.00
15	109 113	709. 00 735. 00	21	80 71	400. 00 355. 00	26	71 77	355.00 385.00
15 15	113	735.00	21 21 21	83	415.00	26 26	74	370.00
18	137	959.00	21	83	415.00	26	68	840.00
15	144 135 129	959.00 1,008.00 945.00	21	88 75	375.00	26	68 66	<b>330.00</b>
15	135	945.00	21	75	875.00	26	71	355.00
15 15	124	839. 00 806. 00	21 21	132 128	858. 00 832. 00	26 26	75 70	375.00 350.00
15	75	875.00	21 21 21 21	96	624.00	26	77	385. 00
15	73	365.00	21	104	676.00	26	90 /	555.00
18	73 72 76 71	360.00	21	118	767.00	26	95	585.00
18	76	380.00	21	124 124	806. 00 806. 00	26	68	340.00
15 15	84	855, 00 495, 00	21 21	80	400.00	26	77 100	<b>385.00</b> <b>650.00</b>
15	90	604.00	21	78	390.00	26	102	663.00
15	98 96	596.00 528.00	21 21	75	375.00	26	121	787.00
15 15	96	<b>528</b> .00	1 91	1 77	385.00	26	114	741.00
15	135	675.00	21	78 71	390.00 355.00	26 26	119	774.00
15 15	117 90	644.00 495.00	21	an an	400.00	26	131 112	852.00 728.00
16	90 12	66.00	21	90 76	380.00	26	iii	555, 00
16	12	66.00	21 21 21 21 21	74	370.00	96	104	520. <b>00</b>
16	207	1,090.00	21 21 21 21	76	380.00	26 26	20 12	60.00
17 17	20 20	60. 00 60. 00	21	75 75	875.00	26	12	66, <b>00</b> 66, <b>00</b>
17	112	676.00	21	227	375.00 1,289.00	i 26	30	90.00
19	75	875.00		10	55.00	26 27	285	90.00 1,674.00
19	75 70 78 75	375.00	22 22 22	40	<b>22</b> 0. 00	27	60	<b>350.00</b>
1 19	70	350. 00 390. 00	22	20 12	60.00	27 27	9 12	42.00 66.00
19	75	875.00	22	11	66. 00 62. 00	27	12	66.00
19	77	385.00	l 22	12	66.00	27	12	66.00
19	119	774.00	1 22	12	66.00	1 97	95	591.00
19	125	813.00	<b>ZZ</b>	12	66.00	27 28	98	539.00
19	117 110	761.00 715.00	23 23	85 82	533.00 512.00	28	30 78 78	90.00 390.00
19 19	113	735.00	1 22	140	700.00	28	78	390.00
19	100	650.00	1 22	140	700.00	28	80 82	400.00
19	112	728.00	23	11	63.00	28	82	410, 00
19 19	114 133	741.00	23	12 12	66. 00 66. 00	28	84 82 80	420.00 410.00
19	97	860. 00 631. 00	23	12	66.00	28 28	80	400.00
19	91	592.00	1 23	7774	1.275.00	28	116	812.00
19	121	787.00	24	1 10	55.00	40	129	903.00
19	120.	780.00	24 24	30 20	90.00	28	112 122 100	728.00
19 19	134 136	938.00 952.00	24 24	20	60. 00 90. 00	28 28	100	793.00 709.00
19	111	552.00	24	30	90.00	28	107	696.00
19	. 93	465.00	24 24 24 24	20	60.00	28	116	812.00
19	. 9	50.00	24	12	66,00	1 28	123	861.00
19	12 30 20 20 22 12	66.00 98.00	24	12	66. 00 52. 00	28	115 103	748.00 670.00
19 19	20	60.00	24	11	63.00	28 28	98	637.00
20	20	60.00	24		66.00	28	122	793.00
20	22	66,00	26	108	702.00	28	40	220.00 88.00
20	12	66.00 63.00	26	] 112	728.00	29	40 20 20 30 30	88.00
20 20	12 125	63.00 687.00	26 26	113 117	735.00 761.00	29 29	30	60, 00 90, 00
20	123	676.00	26	116	754.00	29	30	90.00
20	. 108	540.00	26 26	113	791.00	29	30 12	90.00
20	. 68	359.00	26	. 125	875.00	29	12	66.00
21	. 11	63.00	26	127	889.00	29	12 11	66, 00 60, 00
21 21	30	90.00 90.00	26	137	819.00 959.00	29 30	12	66.00
21	30 20 22	60.00	26 26	123	861.00	30	12	66.00
21	22	66.00	26	. 131	917.00	30	12	66. 00 66. 00
21	. 111	66.00 777.00	26	66	330.00	30	12	66.00
21 21	137 122	959.00 861.00	26 26	70 78	350.00 390.00	30 30	12 12	66. 00 (id. 00
21	116	812.00	26	78	360.00	30	12	66.00
21	126	882.00	26	74	<b>3</b> 70.00	30	12	66.00
21	126 137	959.00	26	70	850.00	30	12	66.00
21	. 112	784.00	26	68 63	340.00 415.00	30	12 12	78, 00 66, 00
21 21	140 78	980.00 390.00	26	76	380.00	31 31	12	66.00
<b>61</b>	. 18					, 01	,	,

Pulp woods imported from Canada into the district of Champlain, port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

31. 12 66.00 5 . 222 1,377.00 9 . 1110 603 31. 12 66.00 5 . 30 90.00 9 . 125 750 31. 12 66.00 6 . 30 90.00 9 . 125 750 31. 12 66.00 6 . 154 90.00 9 . 125 30 31. 30 90.00 6 . 154 90.00 9 . 20 750 31. 30 90.00 6 . 30 90.00 9 . 20 750 31. 30 90.00 6 . 36 90.00 9 . 20 750 31. 30 90.00 6 . 36 90.00 9 . 20 750 31. 30 90.00 6 . 36 90.00 9 . 20 750 31. 30 90.00 6 . 36 90.00 9 . 20 750 31. 30 90.00 6 . 36 90.00 9 . 20 750 31. 30 90.00 6 . 36 90.00 9 . 20 750 31. 30 90.00 6 . 36 90.00 9 . 20 750 31. 31 9 880.00 6 . 36 90.00 9 . 20 750 31. 32 9 90.00 6 . 36 90.00 9 . 20 750 31. 32 9 90.00 6 . 36 90.00 9 . 20 750 31. 32 9 90.00 6 . 36 90.00 9 . 20 750 31. 32 9 90.00 6 . 36 90.00 9 . 20 750 31. 32 9 90.00 6 . 36 90.00 9 . 20 750 31. 32 9 90.00 6 . 36 90.00 9 . 20 750 31. 32 9 90.00 6 . 36 90.00 9 . 20 750 31. 32 9 90.00 6 . 36 90.00 9 . 20 750 31. 32 9 90.00 6 . 36 90.00 9 . 20 750 31. 32 9 90.00 6 . 36 90.00 9 . 20 750 31. 32 9 90.00 6 . 36 90.00 9 . 20 750 31. 32 9 90.00 6 . 36 90.00 9 . 20 90.00 9 . 20 90.00 9 . 20 90.00 9 . 20 90.00 9 . 20 90.00 9 . 20 90.00 9 . 20 90.00 9 . 20 90.00 9 . 20 90.00 9 . 20 90.00 9 . 20 90.00 9 . 20 90.00 9 . 20 90.00 9 . 20 90.00 9 . 20 90.00 9 . 20 90.00 9 . 20 90.00 9 . 20 90.00 9 . 20 90.00 9 . 20 90.00 9 . 20 90.00 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9 . 20 9	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
31. 10   55.00   5. 30   90.00   9   125   755 31. 30   90.00   5. 112   66.00   9   125   755 31. 30   90.00   6. 153   90.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   6   83   415.00   9   20   66.00   6   83   415.00   9   20   66.00   6   83   415.00   9   20   66.00   6   83   415.00   9   20   66.00   6   83   415.00   10   30   30   30   30   30   30	1907.	Cords.		1907.	Cords.	****	1907.	Cords.	
31. 10   55.00   5. 30   90.00   9   125   755 31. 30   90.00   5. 112   66.00   9   125   755 31. 30   90.00   6. 153   90.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   9   12   66.00   6   83   415.00   9   20   66.00   6   83   415.00   9   20   66.00   6   83   415.00   9   20   66.00   6   83   415.00   9   20   66.00   6   83   415.00   10   30   30   30   30   30   30	<b>Aug</b> . 31	12	\$00.00 66.00	sept. 5	999	1 277 00		110	\$590.00 605.00
2. 116 754.00 6108 702.00 10. 12 66 2. 105 683.00 7. 30 90.00 10. 87 600 2. 81 406.00 7. 20 60.00 10. 92 644 2. 80 440.00 7. 11 33.00 10. 177 1,151 2. 777 385.00 7. 30 90.00 10. 77 385 2. 773 385.00 7. 30 90.00 10. 77 385 2. 774 370.00 7. 20 60.00 10. 77 385 2. 774 370.00 7. 20 60.00 10. 74 370 3. 112 66.00 7. 20 60.00 10. 74 370 3. 113 61.00 7. 30 90.00 10. 74 370 3. 114 61.00 7. 30 90.00 10. 73 385 3. 111 61.00 7. 30 90.00 10. 73 385 3. 111 61.00 7. 30 90.00 10. 70 385 3. 111 61.00 7. 30 90.00 10. 70 385 3. 111 61.00 7. 12 66.00 10. 76 385 3. 111 61.00 7. 12 66.00 10. 76 385 3. 111 61.00 7. 11 63.00 10. 81 57 2. 122 610.00 7. 11 63.00 10. 81 57 2. 123 60.00 7. 11 63.00 10. 81 57 2. 124 60.00 10. 244 1,400 2. 118 560.00 7. 11 62.00 11. 12 66.00 11. 12 66.00 11. 22 66.00 11. 12 66.00 11. 12 66.00 11. 22 66.00 11. 22 66.00 11. 12 66.00 11. 22 66.00 11. 12 66.00 11. 22 66.00 11. 22 66.00 11. 12 66.00 11. 22 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00	81	10	55.00	5	30	90.00	9	125	605. 00 750. 00
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2. 116 754.00 6 . 108 702.00 10. 12 66 2. 105 683.00 7. 30 90.00 10. 87 600 2. 81 405.00 7. 20 60.00 10. 92 644 2. 80 440.00 7. 11 33.00 10. 177 1,151 2. 777 385.00 7. 30 90.00 10. 77 385 2. 72 386.00 7. 30 90.00 10. 77 385 2. 74 367.00 7. 20 60.00 10. 77 385 2. 74 367.00 7. 20 60.00 10. 77 385 2. 74 367.00 7. 20 60.00 10. 77 385 2. 11 66.00 7. 30 90.00 10. 74 370 2. 11 66.00 7. 30 90.00 10. 74 370 2. 11 66.00 7. 30 90.00 10. 73 385 2. 11 66.00 7. 20 60.00 10. 73 385 2. 11 66.00 7. 12 66.00 10. 70 385 2. 11 66.00 7. 12 66.00 10. 76 385 2. 11 66.00 7. 12 66.00 10. 76 385 2. 11 66.00 7. 12 66.00 10. 81 57 2. 122 66.00 7. 11 63.00 10. 81 57 2. 123 69.00 7. 11 63.00 10. 81 57 2. 124 69.00 7. 12 60.00 10. 241 1,400 2. 118 560.00 7. 12 60.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 60.00 7. 13 63.00 11. 22 65 2. 12 66.00 7. 13 63.00 11. 22 65 2. 20 60.00 7. 13 63.00 11. 20 65 2. 21 66.00 7. 13 63.00 11. 20 65 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 21 77 78 885 2. 20 60.00 9. 11 68.00 12. 30 90 2. 21 66.00 9. 21 77 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 78 885 2. 20 78 885 2. 20 885 2. 20 885 2.		30	90.00	6	154	910.00	9	12	66.00
2. 116 754.00 6 . 108 702.00 10. 12 66 2. 105 683.00 7. 30 90.00 10. 87 600 2. 81 405.00 7. 20 60.00 10. 92 644 2. 80 440.00 7. 11 33.00 10. 177 1,151 2. 777 385.00 7. 30 90.00 10. 77 385 2. 72 386.00 7. 30 90.00 10. 77 385 2. 74 367.00 7. 20 60.00 10. 77 385 2. 74 367.00 7. 20 60.00 10. 77 385 2. 74 367.00 7. 20 60.00 10. 77 385 2. 11 66.00 7. 30 90.00 10. 74 370 2. 11 66.00 7. 30 90.00 10. 74 370 2. 11 66.00 7. 30 90.00 10. 73 385 2. 11 66.00 7. 20 60.00 10. 73 385 2. 11 66.00 7. 12 66.00 10. 70 385 2. 11 66.00 7. 12 66.00 10. 76 385 2. 11 66.00 7. 12 66.00 10. 76 385 2. 11 66.00 7. 12 66.00 10. 81 57 2. 122 66.00 7. 11 63.00 10. 81 57 2. 123 69.00 7. 11 63.00 10. 81 57 2. 124 69.00 7. 12 60.00 10. 241 1,400 2. 118 560.00 7. 12 60.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 60.00 7. 13 63.00 11. 22 65 2. 12 66.00 7. 13 63.00 11. 22 65 2. 20 60.00 7. 13 63.00 11. 20 65 2. 21 66.00 7. 13 63.00 11. 20 65 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 21 77 78 885 2. 20 60.00 9. 11 68.00 12. 30 90 2. 21 66.00 9. 21 77 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 78 885 2. 20 78 885 2. 20 885 2. 20 885 2.		30	90.00	8	70	850.00		20	70.00
2. 116 754.00 6 . 108 702.00 10. 12 66 2. 105 683.00 7. 30 90.00 10. 87 600 2. 81 405.00 7. 20 60.00 10. 92 644 2. 80 440.00 7. 11 33.00 10. 177 1,151 2. 777 385.00 7. 30 90.00 10. 77 385 2. 72 386.00 7. 30 90.00 10. 77 385 2. 74 367.00 7. 20 60.00 10. 77 385 2. 74 367.00 7. 20 60.00 10. 77 385 2. 74 367.00 7. 20 60.00 10. 77 385 2. 11 66.00 7. 30 90.00 10. 74 370 2. 11 66.00 7. 30 90.00 10. 74 370 2. 11 66.00 7. 30 90.00 10. 73 385 2. 11 66.00 7. 20 60.00 10. 73 385 2. 11 66.00 7. 12 66.00 10. 70 385 2. 11 66.00 7. 12 66.00 10. 76 385 2. 11 66.00 7. 12 66.00 10. 76 385 2. 11 66.00 7. 12 66.00 10. 81 57 2. 122 66.00 7. 11 63.00 10. 81 57 2. 123 69.00 7. 11 63.00 10. 81 57 2. 124 69.00 7. 12 60.00 10. 241 1,400 2. 118 560.00 7. 12 60.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 60.00 7. 13 63.00 11. 22 65 2. 12 66.00 7. 13 63.00 11. 22 65 2. 20 60.00 7. 13 63.00 11. 20 65 2. 21 66.00 7. 13 63.00 11. 20 65 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 21 77 78 885 2. 20 60.00 9. 11 68.00 12. 30 90 2. 21 66.00 9. 21 77 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 78 885 2. 20 78 885 2. 20 885 2. 20 885 2.	31	30	90.00	6	l es	845.00	9	20	65.00
2. 116 754.00 6 . 108 702.00 10. 12 66 2. 105 683.00 7. 30 90.00 10. 87 600 2. 81 405.00 7. 20 60.00 10. 92 644 2. 80 440.00 7. 11 33.00 10. 177 1,151 2. 777 385.00 7. 30 90.00 10. 77 385 2. 72 386.00 7. 30 90.00 10. 77 385 2. 74 367.00 7. 20 60.00 10. 77 385 2. 74 367.00 7. 20 60.00 10. 77 385 2. 74 367.00 7. 20 60.00 10. 77 385 2. 11 66.00 7. 30 90.00 10. 74 370 2. 11 66.00 7. 30 90.00 10. 74 370 2. 11 66.00 7. 30 90.00 10. 73 385 2. 11 66.00 7. 20 60.00 10. 73 385 2. 11 66.00 7. 12 66.00 10. 70 385 2. 11 66.00 7. 12 66.00 10. 76 385 2. 11 66.00 7. 12 66.00 10. 76 385 2. 11 66.00 7. 12 66.00 10. 81 57 2. 122 66.00 7. 11 63.00 10. 81 57 2. 123 69.00 7. 11 63.00 10. 81 57 2. 124 69.00 7. 12 60.00 10. 241 1,400 2. 118 560.00 7. 12 60.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 60.00 7. 13 63.00 11. 22 65 2. 12 66.00 7. 13 63.00 11. 22 65 2. 20 60.00 7. 13 63.00 11. 20 65 2. 21 66.00 7. 13 63.00 11. 20 65 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 21 77 78 885 2. 20 60.00 9. 11 68.00 12. 30 90 2. 21 66.00 9. 21 77 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 78 885 2. 20 78 885 2. 20 885 2. 20 885 2.	31		50.00	6	83	415.00	9	20	65.00
2. 116 754.00 6108 702.00 10. 12 66 2. 105 683.00 7. 30 90.00 10. 87 600 2. 81 406.00 7. 20 60.00 10. 92 644 2. 80 440.00 7. 11 33.00 10. 177 1,151 2. 777 385.00 7. 30 90.00 10. 77 385 2. 773 385.00 7. 30 90.00 10. 77 385 2. 774 370.00 7. 20 60.00 10. 77 385 2. 774 370.00 7. 20 60.00 10. 74 370 3. 112 66.00 7. 20 60.00 10. 74 370 3. 113 61.00 7. 30 90.00 10. 74 370 3. 114 61.00 7. 30 90.00 10. 73 385 3. 111 61.00 7. 30 90.00 10. 73 385 3. 111 61.00 7. 30 90.00 10. 70 385 3. 111 61.00 7. 30 90.00 10. 70 385 3. 111 61.00 7. 12 66.00 10. 76 385 3. 111 61.00 7. 12 66.00 10. 76 385 3. 111 61.00 7. 11 63.00 10. 81 57 2. 122 610.00 7. 11 63.00 10. 81 57 2. 123 60.00 7. 11 63.00 10. 81 57 2. 124 60.00 10. 244 1,400 2. 118 560.00 7. 11 62.00 11. 12 66.00 11. 12 66.00 11. 22 66.00 11. 12 66.00 11. 12 66.00 11. 22 66.00 11. 22 66.00 11. 12 66.00 11. 22 66.00 11. 12 66.00 11. 22 66.00 11. 22 66.00 11. 12 66.00 11. 22 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00	81	12	66.00	6	100	700.00	9	460	2,616.00
2. 116 754.00 6 . 108 702.00 10. 12 66 2. 105 683.00 7. 30 90.00 10. 87 600 2. 81 405.00 7. 20 60.00 10. 92 644 2. 80 440.00 7. 11 33.00 10. 177 1,151 2. 777 385.00 7. 30 90.00 10. 77 385 2. 72 386.00 7. 30 90.00 10. 77 385 2. 74 367.00 7. 20 60.00 10. 77 385 2. 74 367.00 7. 20 60.00 10. 77 385 2. 74 367.00 7. 20 60.00 10. 77 385 2. 11 66.00 7. 30 90.00 10. 74 370 2. 11 66.00 7. 30 90.00 10. 74 370 2. 11 66.00 7. 30 90.00 10. 73 385 2. 11 66.00 7. 20 60.00 10. 73 385 2. 11 66.00 7. 12 66.00 10. 70 385 2. 11 66.00 7. 12 66.00 10. 76 385 2. 11 66.00 7. 12 66.00 10. 76 385 2. 11 66.00 7. 12 66.00 10. 81 57 2. 122 66.00 7. 11 63.00 10. 81 57 2. 123 69.00 7. 11 63.00 10. 81 57 2. 124 69.00 7. 12 60.00 10. 241 1,400 2. 118 560.00 7. 12 60.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 60.00 7. 13 63.00 11. 22 65 2. 12 66.00 7. 13 63.00 11. 22 65 2. 20 60.00 7. 13 63.00 11. 20 65 2. 21 66.00 7. 13 63.00 11. 20 65 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 21 77 78 885 2. 20 60.00 9. 11 68.00 12. 30 90 2. 21 66.00 9. 21 77 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 78 885 2. 20 78 885 2. 20 885 2. 20 885 2.	Bept. 2	127	889.00	2	103	721.00	10	30	80.00
2. 116 754.00 6 . 108 702.00 10. 12 66 2. 105 683.00 7. 30 90.00 10. 87 600 2. 81 405.00 7. 20 60.00 10. 92 644 2. 80 440.00 7. 11 33.00 10. 177 1,151 2. 777 385.00 7. 30 90.00 10. 77 385 2. 72 386.00 7. 30 90.00 10. 77 385 2. 74 367.00 7. 20 60.00 10. 77 385 2. 74 367.00 7. 20 60.00 10. 77 385 2. 74 367.00 7. 20 60.00 10. 77 385 2. 11 66.00 7. 30 90.00 10. 74 370 2. 11 66.00 7. 30 90.00 10. 74 370 2. 11 66.00 7. 30 90.00 10. 73 385 2. 11 66.00 7. 20 60.00 10. 73 385 2. 11 66.00 7. 12 66.00 10. 70 385 2. 11 66.00 7. 12 66.00 10. 76 385 2. 11 66.00 7. 12 66.00 10. 76 385 2. 11 66.00 7. 12 66.00 10. 81 57 2. 122 66.00 7. 11 63.00 10. 81 57 2. 123 69.00 7. 11 63.00 10. 81 57 2. 124 69.00 7. 12 60.00 10. 241 1,400 2. 118 560.00 7. 12 60.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 60.00 7. 13 63.00 11. 22 65 2. 12 66.00 7. 13 63.00 11. 22 65 2. 20 60.00 7. 13 63.00 11. 20 65 2. 21 66.00 7. 13 63.00 11. 20 65 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 21 77 78 885 2. 20 60.00 9. 11 68.00 12. 30 90 2. 21 66.00 9. 21 77 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 78 885 2. 20 78 885 2. 20 885 2. 20 885 2.	2	127	889.00	6	84	588.00	10	30	90.00
2. 116 754.00 6 . 108 702.00 10. 12 66 2. 105 683.00 7. 30 90.00 10. 87 600 2. 81 405.00 7. 20 60.00 10. 92 644 2. 80 440.00 7. 11 33.00 10. 177 1,151 2. 777 385.00 7. 30 90.00 10. 77 385 2. 72 386.00 7. 30 90.00 10. 77 385 2. 74 367.00 7. 20 60.00 10. 77 385 2. 74 367.00 7. 20 60.00 10. 77 385 2. 74 367.00 7. 20 60.00 10. 77 385 2. 11 66.00 7. 30 90.00 10. 74 370 2. 11 66.00 7. 30 90.00 10. 74 370 2. 11 66.00 7. 30 90.00 10. 73 385 2. 11 66.00 7. 20 60.00 10. 73 385 2. 11 66.00 7. 12 66.00 10. 70 385 2. 11 66.00 7. 12 66.00 10. 76 385 2. 11 66.00 7. 12 66.00 10. 76 385 2. 11 66.00 7. 12 66.00 10. 81 57 2. 122 66.00 7. 11 63.00 10. 81 57 2. 123 69.00 7. 11 63.00 10. 81 57 2. 124 69.00 7. 12 60.00 10. 241 1,400 2. 118 560.00 7. 12 60.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 60.00 7. 13 63.00 11. 22 65 2. 12 66.00 7. 13 63.00 11. 22 65 2. 20 60.00 7. 13 63.00 11. 20 65 2. 21 66.00 7. 13 63.00 11. 20 65 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 21 77 78 885 2. 20 60.00 9. 11 68.00 12. 30 90 2. 21 66.00 9. 21 77 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 78 885 2. 20 78 885 2. 20 885 2. 20 885 2.	2	129	903.00	6	105	735.00	10	30	90.00
2. 116 754.00 6108 702.00 10. 12 66 2. 105 683.00 7. 30 90.00 10. 87 600 2. 81 406.00 7. 20 60.00 10. 92 644 2. 80 440.00 7. 11 33.00 10. 177 1,151 2. 777 385.00 7. 30 90.00 10. 77 385 2. 773 385.00 7. 30 90.00 10. 77 385 2. 774 370.00 7. 20 60.00 10. 77 385 2. 774 370.00 7. 20 60.00 10. 74 370 3. 112 66.00 7. 20 60.00 10. 74 370 3. 113 61.00 7. 30 90.00 10. 74 370 3. 114 61.00 7. 30 90.00 10. 73 385 3. 111 61.00 7. 30 90.00 10. 73 385 3. 111 61.00 7. 30 90.00 10. 70 385 3. 111 61.00 7. 30 90.00 10. 70 385 3. 111 61.00 7. 12 66.00 10. 76 385 3. 111 61.00 7. 12 66.00 10. 76 385 3. 111 61.00 7. 11 63.00 10. 81 57 2. 122 610.00 7. 11 63.00 10. 81 57 2. 123 60.00 7. 11 63.00 10. 81 57 2. 124 60.00 10. 244 1,400 2. 118 560.00 7. 11 62.00 11. 12 66.00 11. 12 66.00 11. 22 66.00 11. 12 66.00 11. 12 66.00 11. 22 66.00 11. 22 66.00 11. 12 66.00 11. 22 66.00 11. 12 66.00 11. 22 66.00 11. 22 66.00 11. 12 66.00 11. 22 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00	2	127	889.00	6	134	938.00	10	30	90.00
2. 116 754.00 6 . 108 702.00 10. 12 66 2. 105 683.00 7. 30 90.00 10. 87 600 2. 81 405.00 7. 20 60.00 10. 92 644 2. 80 440.00 7. 11 33.00 10. 177 1,151 2. 777 385.00 7. 30 90.00 10. 77 385 2. 72 386.00 7. 30 90.00 10. 77 385 2. 74 367.00 7. 20 60.00 10. 77 385 2. 74 367.00 7. 20 60.00 10. 77 385 2. 74 367.00 7. 20 60.00 10. 77 385 2. 11 66.00 7. 30 90.00 10. 74 370 2. 11 66.00 7. 30 90.00 10. 74 370 2. 11 66.00 7. 30 90.00 10. 73 385 2. 11 66.00 7. 20 60.00 10. 73 385 2. 11 66.00 7. 12 66.00 10. 70 385 2. 11 66.00 7. 12 66.00 10. 76 385 2. 11 66.00 7. 12 66.00 10. 76 385 2. 11 66.00 7. 12 66.00 10. 81 57 2. 122 66.00 7. 11 63.00 10. 81 57 2. 123 69.00 7. 11 63.00 10. 81 57 2. 124 69.00 7. 12 60.00 10. 241 1,400 2. 118 560.00 7. 12 60.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 710.00 7. 13 63.00 11. 12 65 2. 100 60.00 7. 13 63.00 11. 22 65 2. 12 66.00 7. 13 63.00 11. 22 65 2. 20 60.00 7. 13 63.00 11. 20 65 2. 21 66.00 7. 13 63.00 11. 20 65 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 11 63.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 21 66.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 20 60.00 12. 30 90 2. 21 66.00 9. 21 77 78 885 2. 20 60.00 9. 11 68.00 12. 30 90 2. 21 66.00 9. 21 77 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 67 77 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 60.00 9. 11 77 78 885 2. 20 78 885 2. 20 78 885 2. 20 885 2. 20 885 2.	2	125	945.00	6	111	777.00	10	20	00.00
2. 116 754.00 6108 702.00 10. 12 66 2. 105 683.00 7. 30 90.00 10. 87 600 2. 81 406.00 7. 20 60.00 10. 92 644 2. 80 440.00 7. 11 33.00 10. 177 1,151 2. 777 385.00 7. 30 90.00 10. 77 385 2. 773 385.00 7. 30 90.00 10. 77 385 2. 774 370.00 7. 20 60.00 10. 77 385 2. 774 370.00 7. 20 60.00 10. 74 370 3. 112 66.00 7. 20 60.00 10. 74 370 3. 113 61.00 7. 30 90.00 10. 74 370 3. 114 61.00 7. 30 90.00 10. 73 385 3. 111 61.00 7. 30 90.00 10. 73 385 3. 111 61.00 7. 30 90.00 10. 70 385 3. 111 61.00 7. 30 90.00 10. 70 385 3. 111 61.00 7. 12 66.00 10. 76 385 3. 111 61.00 7. 12 66.00 10. 76 385 3. 111 61.00 7. 11 63.00 10. 81 57 2. 122 610.00 7. 11 63.00 10. 81 57 2. 123 60.00 7. 11 63.00 10. 81 57 2. 124 60.00 10. 244 1,400 2. 118 560.00 7. 11 62.00 11. 12 66.00 11. 12 66.00 11. 22 66.00 11. 12 66.00 11. 12 66.00 11. 22 66.00 11. 22 66.00 11. 12 66.00 11. 22 66.00 11. 12 66.00 11. 22 66.00 11. 22 66.00 11. 12 66.00 11. 22 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00	2	128	832.00	8	115	805.00	10	20	90.00
2. 116 754.00 6108 702.00 10. 12 66 2. 105 683.00 7. 30 90.00 10. 87 600 2. 81 406.00 7. 20 60.00 10. 92 644 2. 80 440.00 7. 11 33.00 10. 177 1,151 2. 777 385.00 7. 30 90.00 10. 77 385 2. 773 385.00 7. 30 90.00 10. 77 385 2. 774 370.00 7. 20 60.00 10. 77 385 2. 774 370.00 7. 20 60.00 10. 74 370 3. 112 66.00 7. 20 60.00 10. 74 370 3. 113 61.00 7. 30 90.00 10. 74 370 3. 114 61.00 7. 30 90.00 10. 73 385 3. 111 61.00 7. 30 90.00 10. 73 385 3. 111 61.00 7. 30 90.00 10. 70 385 3. 111 61.00 7. 30 90.00 10. 70 385 3. 111 61.00 7. 12 66.00 10. 76 385 3. 111 61.00 7. 12 66.00 10. 76 385 3. 111 61.00 7. 11 63.00 10. 81 57 2. 122 610.00 7. 11 63.00 10. 81 57 2. 123 60.00 7. 11 63.00 10. 81 57 2. 124 60.00 10. 244 1,400 2. 118 560.00 7. 11 62.00 11. 12 66.00 11. 12 66.00 11. 22 66.00 11. 12 66.00 11. 12 66.00 11. 22 66.00 11. 22 66.00 11. 12 66.00 11. 22 66.00 11. 12 66.00 11. 22 66.00 11. 22 66.00 11. 12 66.00 11. 22 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00	2	115	748.00	6	118	826.00	10	20	60.00
2. 116 754.00 6108 702.00 10. 12 66 2. 105 683.00 7. 30 90.00 10. 87 600 2. 81 406.00 7. 20 60.00 10. 92 644 2. 80 440.00 7. 11 33.00 10. 177 1,151 2. 777 385.00 7. 30 90.00 10. 77 385 2. 773 385.00 7. 30 90.00 10. 77 385 2. 774 370.00 7. 20 60.00 10. 77 385 2. 774 370.00 7. 20 60.00 10. 74 370 3. 112 66.00 7. 20 60.00 10. 74 370 3. 113 61.00 7. 30 90.00 10. 74 370 3. 114 61.00 7. 30 90.00 10. 73 385 3. 111 61.00 7. 30 90.00 10. 73 385 3. 111 61.00 7. 30 90.00 10. 70 385 3. 111 61.00 7. 30 90.00 10. 70 385 3. 111 61.00 7. 12 66.00 10. 76 385 3. 111 61.00 7. 12 66.00 10. 76 385 3. 111 61.00 7. 11 63.00 10. 81 57 2. 122 610.00 7. 11 63.00 10. 81 57 2. 123 60.00 7. 11 63.00 10. 81 57 2. 124 60.00 10. 244 1,400 2. 118 560.00 7. 11 62.00 11. 12 66.00 11. 12 66.00 11. 22 66.00 11. 12 66.00 11. 12 66.00 11. 22 66.00 11. 22 66.00 11. 12 66.00 11. 22 66.00 11. 12 66.00 11. 22 66.00 11. 22 66.00 11. 12 66.00 11. 22 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00 11. 12 66.00	2	1 92	598.00	6	115	748.00	10	12	66.00
2 725 4,038.00 9 20 80.00 12 73 855 3 10 55.00 9 114 570.00 12 80 400 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 116 550.00 12 81 405 3 12 66.00 9 122 793.00 12 79 385 4 144 936.00 9 122 793.00 12 83 415 4 127 826.00 9 122 793.00 12 80 400 4 127 826.00 9 122 793.00 12 80 400 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 133 755 4 108 702.00 9 127 826.00 12 113 725 4 108 702.00 9 104 976.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 108 702.00 12 115 674 4 111 722.00 9 108 702.00 12 115 683 4 111 737.00 9 122 738.00 12 115 748 4 111 737.00 9 109 109 109 120 120 115 683 4 111 738.00 9 109 109 120 120 105 833 4 111 738.00 9 109 109 728.00 12 116 728.00 12 117 761 4 128 832.00 9 108 702.00 12 1105 833 4 111 738.00 9 122 738.00 12 110 883 4 128 832.00 9 108 702.00 12 1105 833 4 128 832.00 9 108 702.00 12 110 883 4 121 737.00 9 122 738.00 12 118 826 4 128 832.00 9 109 109 109 120 109 120 118 826 4 128 832.00 9 128 836.00 13 18 826 4 128 832.00 9 109 103 670.00 13 88 551 4 128 832.00 9 123 836.00 13 118 826 4 73 365.00 9 123 836.00 13 118 826 4 74 370.00 9 79 385.00 13 118 826 4 77 370.00 9 79 385.00 13 118 826 4 77 370.00 9 79 385.00 13 118 826	2	123	800.00	6	132	858.00	10		<b>51.</b> 00
2 725 4,038.00 9 20 80.00 12 73 855 3 10 55.00 9 114 570.00 12 80 400 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 116 550.00 12 81 405 3 12 66.00 9 122 793.00 12 79 385 4 144 936.00 9 122 793.00 12 83 415 4 127 826.00 9 122 793.00 12 80 400 4 127 826.00 9 122 793.00 12 80 400 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 133 755 4 108 702.00 9 127 826.00 12 113 725 4 108 702.00 9 104 876.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 108 702.00 12 115 683 4 111 722.00 9 108 702.00 12 105 683 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 116 676 4 111 737.00 9 122 738.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 121 787.00 9 122 738.00 12 118 826 4 128 832.00 9 103 670.00 13 88 551 4 142 709.00 9 123 891.00 13 97 668 4 73 365.00 9 123 896.00 13 118 826 4 73 365.00 9 123 896.00 13 118 826 4 74 370.00 9 79 385.00 13 118 826 4 77 370.00 9 79 385.00 13 118 826 4 77 3 365.00 9 79 385.00 13 118 826 5 76	7	116	754.00	9	108	702.00	10	12	66.00
2 725 4,038.00 9 20 80.00 12 73 855 3 10 55.00 9 114 570.00 12 80 400 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 116 550.00 12 81 405 3 12 66.00 9 122 793.00 12 79 385 4 144 936.00 9 122 793.00 12 83 415 4 127 826.00 9 122 793.00 12 80 400 4 127 826.00 9 122 793.00 12 80 400 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 133 755 4 108 702.00 9 127 826.00 12 113 725 4 108 702.00 9 104 876.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 108 702.00 12 115 683 4 111 722.00 9 108 702.00 12 105 683 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 116 676 4 111 737.00 9 122 738.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 121 787.00 9 122 738.00 12 118 826 4 128 832.00 9 103 670.00 13 88 551 4 142 709.00 9 123 891.00 13 97 668 4 73 365.00 9 123 896.00 13 118 826 4 73 365.00 9 123 896.00 13 118 826 4 74 370.00 9 79 385.00 13 118 826 4 77 370.00 9 79 385.00 13 118 826 4 77 3 365.00 9 79 385.00 13 118 826 5 76	2	105	683.00	7	30	90.00	10	87	800.00
2 725 4,038.00 9 20 80.00 12 73 855 3 10 55.00 9 114 570.00 12 80 400 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 116 550.00 12 81 405 3 12 66.00 9 122 793.00 12 79 385 4 144 936.00 9 122 793.00 12 83 415 4 127 826.00 9 122 793.00 12 80 400 4 127 826.00 9 122 793.00 12 80 400 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 133 755 4 108 702.00 9 127 826.00 12 113 725 4 108 702.00 9 104 876.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 108 702.00 12 115 683 4 111 722.00 9 108 702.00 12 105 683 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 116 676 4 111 737.00 9 122 738.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 121 787.00 9 122 738.00 12 118 826 4 128 832.00 9 103 670.00 13 88 551 4 142 709.00 9 123 891.00 13 97 668 4 73 365.00 9 123 896.00 13 118 826 4 73 365.00 9 123 896.00 13 118 826 4 74 370.00 9 79 385.00 13 118 826 4 77 370.00 9 79 385.00 13 118 826 4 77 3 365.00 9 79 385.00 13 118 826 5 76	2	81	405.00	7	20	60.00	10	92	644.00
2 725 4,038.00 9 20 80.00 12 73 855 3 10 55.00 9 114 570.00 12 80 400 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 116 550.00 12 81 405 3 12 66.00 9 122 793.00 12 79 385 4 144 936.00 9 122 793.00 12 83 415 4 127 826.00 9 122 793.00 12 80 400 4 127 826.00 9 122 793.00 12 80 400 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 133 755 4 108 702.00 9 127 826.00 12 113 725 4 108 702.00 9 104 876.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 108 702.00 12 115 683 4 111 722.00 9 108 702.00 12 105 683 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 116 676 4 111 737.00 9 122 738.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 121 787.00 9 122 738.00 12 118 826 4 128 832.00 9 103 670.00 13 88 551 4 142 709.00 9 123 891.00 13 97 668 4 73 365.00 9 123 896.00 13 118 826 4 73 365.00 9 123 896.00 13 118 826 4 74 370.00 9 79 385.00 13 118 826 4 77 370.00 9 79 385.00 13 118 826 4 77 3 365.00 9 79 385.00 13 118 826 5 76	2	80	400.00	7	11	33.00	10	177	1, 151. 00
2 725 4,038.00 9 20 60.00 12 73 855 3 10 55.00 9 114 570.00 12 80 400 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 122 793.00 12 79 385 4 127 826.00 9 122 793.00 12 83 415 4 127 826.00 9 122 793.00 12 83 415 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 133 755 4 108 702.00 9 109 127 826.00 12 113 725 4 108 702.00 9 109 140 910.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 115 674 4 111 722.00 9 108 702.00 12 115 748 4 111 722.00 9 108 702.00 12 105 633 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 117 751 4 128 832.00 9 108 702.00 12 110 674 4 111 722.00 9 112 728.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 121 787.00 9 122 793.00 12 118 826 4 128 832.00 9 109 109 728.00 12 118 826 4 128 832.00 9 109 129 738.00 12 118 826 4 128 832.00 9 123 836.00 12 118 826 4 128 832.00 9 103 670.00 13 88 551 4 142 709.00 9 123 891.00 13 99 668 4 73 385.00 9 123 896.00 13 118 826 4 73 385.00 9 123 896.00 13 118 826 4 74 370.00 9 79 385.00 13 118 826 4 77 370.00 9 79 385.00 13 118 826 5 78 380.00 9 79 385.00 13 118 826	2	77	385.00	7	30	90.00	10	77	385.00
2 725 4,038.00 9 20 60.00 12 73 855 3 10 55.00 9 114 570.00 12 80 400 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 122 793.00 12 79 385 4 127 826.00 9 122 793.00 12 83 415 4 127 826.00 9 122 793.00 12 83 415 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 133 755 4 108 702.00 9 109 127 826.00 12 113 725 4 108 702.00 9 109 140 910.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 115 674 4 111 722.00 9 108 702.00 12 115 748 4 111 722.00 9 108 702.00 12 105 633 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 117 751 4 128 832.00 9 108 702.00 12 110 674 4 111 722.00 9 112 728.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 121 787.00 9 122 793.00 12 118 826 4 128 832.00 9 109 109 728.00 12 118 826 4 128 832.00 9 109 129 738.00 12 118 826 4 128 832.00 9 123 836.00 12 118 826 4 128 832.00 9 103 670.00 13 88 551 4 142 709.00 9 123 891.00 13 99 668 4 73 385.00 9 123 896.00 13 118 826 4 73 385.00 9 123 896.00 13 118 826 4 74 370.00 9 79 385.00 13 118 826 4 77 370.00 9 79 385.00 13 118 826 5 78 380.00 9 79 385.00 13 118 826	2	72	360.00	· ····	20	90.00	10	75	875.00 870.00
2 725 4,038.00 9 20 60.00 12 73 855 3 10 55.00 9 114 570.00 12 80 400 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 122 793.00 12 79 385 4 127 826.00 9 122 793.00 12 83 415 4 127 826.00 9 122 793.00 12 83 415 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 133 755 4 108 702.00 9 109 127 826.00 12 113 725 4 108 702.00 9 109 140 910.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 115 674 4 111 722.00 9 108 702.00 12 115 748 4 111 722.00 9 108 702.00 12 105 633 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 117 751 4 128 832.00 9 108 702.00 12 110 674 4 111 722.00 9 112 728.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 121 787.00 9 122 793.00 12 118 826 4 128 832.00 9 109 109 728.00 12 118 826 4 128 832.00 9 109 129 738.00 12 118 826 4 128 832.00 9 123 836.00 12 118 826 4 128 832.00 9 103 670.00 13 88 551 4 142 709.00 9 123 891.00 13 99 668 4 73 385.00 9 123 896.00 13 118 826 4 73 385.00 9 123 896.00 13 118 826 4 74 370.00 9 79 385.00 13 118 826 4 77 370.00 9 79 385.00 13 118 826 5 78 380.00 9 79 385.00 13 118 826	2	12	66.00	7	20	60.00	10	73	365.00
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2 725 4,038.00 9 20 80.00 12 73 855 3 10 55.00 9 114 570.00 12 80 400 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 116 550.00 12 81 405 3 12 66.00 9 122 793.00 12 79 385 4 144 936.00 9 122 793.00 12 83 415 4 127 826.00 9 122 793.00 12 80 400 4 127 826.00 9 122 793.00 12 80 400 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 133 755 4 108 702.00 9 127 826.00 12 113 725 4 108 702.00 9 104 876.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 108 702.00 12 115 683 4 111 722.00 9 108 702.00 12 105 683 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 116 676 4 111 737.00 9 122 738.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 121 787.00 9 122 738.00 12 118 826 4 128 832.00 9 103 670.00 13 88 551 4 142 709.00 9 123 891.00 13 97 668 4 73 365.00 9 123 896.00 13 118 826 4 73 365.00 9 123 896.00 13 118 826 4 74 370.00 9 79 385.00 13 118 826 4 77 370.00 9 79 385.00 13 118 826 4 77 3 365.00 9 79 385.00 13 118 826 5 76	2	12	66.00	7	12	66.00	10	76	880.00
2 725 4,038.00 9 20 80.00 12 73 855 3 10 55.00 9 114 570.00 12 80 400 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 116 550.00 12 81 405 3 12 66.00 9 122 793.00 12 79 385 4 144 936.00 9 122 793.00 12 83 415 4 127 826.00 9 122 793.00 12 80 400 4 127 826.00 9 122 793.00 12 80 400 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 133 755 4 108 702.00 9 127 826.00 12 113 725 4 108 702.00 9 104 876.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 108 702.00 12 115 683 4 111 722.00 9 108 702.00 12 105 683 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 116 676 4 111 737.00 9 122 738.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 121 787.00 9 122 738.00 12 118 826 4 128 832.00 9 103 670.00 13 88 551 4 142 709.00 9 123 891.00 13 97 668 4 73 365.00 9 123 896.00 13 118 826 4 73 365.00 9 123 896.00 13 118 826 4 74 370.00 9 79 385.00 13 118 826 4 77 370.00 9 79 385.00 13 118 826 4 77 3 365.00 9 79 385.00 13 118 826 5 76	2	10	57.00	7	12	66.00	10	09	845.00
2 725 4,038.00 9 20 80.00 12 73 855 3 10 55.00 9 114 570.00 12 80 400 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 116 550.00 12 81 405 3 12 66.00 9 122 793.00 12 79 385 4 144 936.00 9 122 793.00 12 83 415 4 127 826.00 9 122 793.00 12 80 400 4 127 826.00 9 122 793.00 12 80 400 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 133 755 4 108 702.00 9 127 826.00 12 113 725 4 108 702.00 9 104 876.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 108 702.00 12 115 683 4 111 722.00 9 108 702.00 12 105 683 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 116 676 4 111 737.00 9 122 738.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 121 787.00 9 122 738.00 12 118 826 4 128 832.00 9 103 670.00 13 88 551 4 142 709.00 9 123 891.00 13 97 668 4 73 365.00 9 123 896.00 13 118 826 4 73 365.00 9 123 896.00 13 118 826 4 74 370.00 9 79 385.00 13 118 826 4 77 370.00 9 79 385.00 13 118 826 4 77 3 365.00 9 79 385.00 13 118 826 5 76	3	122	610.00	<u> </u>	1 12	66.00	10	241	1 400 00
2 725 4,038.00 9 20 60.00 12 73 855 3 10 55.00 9 114 570.00 12 80 400 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 122 793.00 12 79 385 4 127 826.00 9 122 793.00 12 83 415 4 127 826.00 9 122 793.00 12 83 415 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 133 755 4 108 702.00 9 109 127 826.00 12 113 725 4 108 702.00 9 109 140 910.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 115 674 4 111 722.00 9 108 702.00 12 115 748 4 111 722.00 9 108 702.00 12 105 633 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 117 751 4 128 832.00 9 108 702.00 12 110 674 4 111 722.00 9 112 728.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 121 787.00 9 122 793.00 12 118 826 4 128 832.00 9 109 109 728.00 12 118 826 4 128 832.00 9 109 129 738.00 12 118 826 4 128 832.00 9 123 836.00 12 118 826 4 128 832.00 9 103 670.00 13 88 551 4 142 709.00 9 123 891.00 13 99 668 4 73 385.00 9 123 896.00 13 118 826 4 73 385.00 9 123 896.00 13 118 826 4 74 370.00 9 79 385.00 13 118 826 4 77 370.00 9 79 385.00 13 118 826 5 78 380.00 9 79 385.00 13 118 826	2	118	590.00	7	ii	62.00	ii	12	66.00
2 725 4,038.00 9 20 80.00 12 73 855 3 10 55.00 9 114 570.00 12 80 400 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 116 550.00 12 81 405 3 12 66.00 9 122 793.00 12 79 385 4 144 936.00 9 122 793.00 12 83 415 4 127 826.00 9 122 793.00 12 80 400 4 127 826.00 9 122 793.00 12 80 400 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 133 755 4 108 702.00 9 127 826.00 12 113 725 4 108 702.00 9 104 876.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 108 702.00 12 115 683 4 111 722.00 9 108 702.00 12 105 683 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 116 676 4 111 737.00 9 122 738.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 121 787.00 9 122 738.00 12 118 826 4 128 832.00 9 103 670.00 13 88 551 4 142 709.00 9 123 891.00 13 97 668 4 73 365.00 9 123 896.00 13 118 826 4 73 365.00 9 123 896.00 13 118 826 4 74 370.00 9 79 385.00 13 118 826 4 77 370.00 9 79 385.00 13 118 826 4 77 3 365.00 9 79 385.00 13 118 826 5 76	2	101	718.00	7	12	66.00	11	10	55.00
2 725 4,038.00 9 20 80.00 12 73 855 3 10 55.00 9 114 570.00 12 80 400 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 116 550.00 12 81 405 3 12 66.00 9 122 793.00 12 79 385 4 144 936.00 9 122 793.00 12 83 415 4 127 826.00 9 122 793.00 12 80 400 4 127 826.00 9 122 793.00 12 80 400 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 133 755 4 108 702.00 9 127 826.00 12 113 725 4 108 702.00 9 104 876.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 108 702.00 12 115 683 4 111 722.00 9 108 702.00 12 105 683 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 116 676 4 111 737.00 9 122 738.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 121 787.00 9 122 738.00 12 118 826 4 128 832.00 9 103 670.00 13 88 551 4 142 709.00 9 123 891.00 13 97 668 4 73 365.00 9 123 896.00 13 118 826 4 73 365.00 9 123 896.00 13 118 826 4 74 370.00 9 79 385.00 13 118 826 4 77 370.00 9 79 385.00 13 118 826 4 77 3 365.00 9 79 385.00 13 118 826 5 76	2	100	710.00	7	13	73.00	11	11.	62.00
2 725 4,038.00 9 20 80.00 12 73 855 3 10 55.00 9 114 570.00 12 80 400 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 116 550.00 12 81 405 3 12 66.00 9 122 793.00 12 79 385 4 144 936.00 9 122 793.00 12 83 415 4 127 826.00 9 122 793.00 12 80 400 4 127 826.00 9 122 793.00 12 80 400 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 133 755 4 108 702.00 9 127 826.00 12 113 725 4 108 702.00 9 104 876.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 108 702.00 12 115 683 4 111 722.00 9 108 702.00 12 105 683 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 116 676 4 111 737.00 9 122 738.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 121 787.00 9 122 738.00 12 118 826 4 128 832.00 9 103 670.00 13 88 551 4 142 709.00 9 123 891.00 13 97 668 4 73 365.00 9 123 896.00 13 118 826 4 73 365.00 9 123 896.00 13 118 826 4 74 370.00 9 79 385.00 13 118 826 4 77 370.00 9 79 385.00 13 118 826 4 77 3 365.00 9 79 385.00 13 118 826 5 76	2	20	60.00	·	111	63.00	;;	20	60.00
2 725 4,038.00 9 20 80.00 12 73 855 3 10 55.00 9 114 570.00 12 80 400 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 116 550.00 12 81 405 3 12 66.00 9 122 793.00 12 79 385 4 144 936.00 9 122 793.00 12 83 415 4 127 826.00 9 122 793.00 12 80 400 4 127 826.00 9 122 793.00 12 80 400 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 133 755 4 108 702.00 9 127 826.00 12 113 725 4 108 702.00 9 104 876.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 108 702.00 12 115 683 4 111 722.00 9 108 702.00 12 105 683 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 116 676 4 111 737.00 9 122 738.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 121 787.00 9 122 738.00 12 118 826 4 128 832.00 9 103 670.00 13 88 551 4 142 709.00 9 123 891.00 13 97 668 4 73 365.00 9 123 896.00 13 118 826 4 73 365.00 9 123 896.00 13 118 826 4 74 370.00 9 79 385.00 13 118 826 4 77 370.00 9 79 385.00 13 118 826 4 77 3 365.00 9 79 385.00 13 118 826 5 76	2	l ñ	55.00	7	12	66.00	ii	ũ	822,00
2 725 4,038.00 9 20 60.00 12 73 855 3 10 55.00 9 114 570.00 12 80 400 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 122 793.00 12 79 385 4 127 826.00 9 122 793.00 12 83 415 4 127 826.00 9 122 793.00 12 83 415 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 133 755 4 108 702.00 9 109 127 826.00 12 113 725 4 108 702.00 9 109 140 910.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 115 674 4 111 722.00 9 108 702.00 12 115 748 4 111 722.00 9 108 702.00 12 105 633 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 117 751 4 128 832.00 9 108 702.00 12 110 674 4 111 722.00 9 112 728.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 121 787.00 9 122 793.00 12 118 826 4 128 832.00 9 109 109 728.00 12 118 826 4 128 832.00 9 109 129 738.00 12 118 826 4 128 832.00 9 123 836.00 12 118 826 4 128 832.00 9 103 670.00 13 88 551 4 142 709.00 9 123 891.00 13 99 668 4 73 385.00 9 123 896.00 13 118 826 4 73 385.00 9 123 896.00 13 118 826 4 74 370.00 9 79 385.00 13 118 826 4 77 370.00 9 79 385.00 13 118 826 5 78 380.00 9 79 385.00 13 118 826	2	20	60.00	7	130	715.00	12	60	830.00
2 725 4,038.00 9 20 80.00 12 73 855 3 10 55.00 9 114 570.00 12 80 400 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 116 550.00 12 81 405 3 12 66.00 9 122 793.00 12 79 385 4 144 936.00 9 122 793.00 12 83 415 4 127 826.00 9 122 793.00 12 80 400 4 127 826.00 9 122 793.00 12 80 400 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 133 755 4 108 702.00 9 127 826.00 12 113 725 4 108 702.00 9 104 876.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 108 702.00 12 115 683 4 111 722.00 9 108 702.00 12 105 683 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 116 676 4 111 737.00 9 122 738.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 121 787.00 9 122 738.00 12 118 826 4 128 832.00 9 103 670.00 13 88 551 4 142 709.00 9 123 891.00 13 97 668 4 73 365.00 9 123 896.00 13 118 826 4 73 365.00 9 123 896.00 13 118 826 4 74 370.00 9 79 385.00 13 118 826 4 77 370.00 9 79 385.00 13 118 826 4 77 3 365.00 9 79 385.00 13 118 826 5 76	2	12	66.00	9	12	66.00	12	30	90.00
2 725 4,038.00 9 20 60.00 12 73 855 3 10 55.00 9 114 570.00 12 80 400 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 122 793.00 12 79 385 4 127 826.00 9 122 793.00 12 83 415 4 127 826.00 9 122 793.00 12 83 415 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 133 755 4 108 702.00 9 109 127 826.00 12 113 725 4 108 702.00 9 109 140 910.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 115 674 4 111 722.00 9 108 702.00 12 115 748 4 111 722.00 9 108 702.00 12 105 633 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 117 751 4 128 832.00 9 108 702.00 12 110 674 4 111 722.00 9 112 728.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 121 787.00 9 122 793.00 12 118 826 4 128 832.00 9 109 109 728.00 12 118 826 4 128 832.00 9 109 129 738.00 12 118 826 4 128 832.00 9 123 836.00 12 118 826 4 128 832.00 9 103 670.00 13 88 551 4 142 709.00 9 123 891.00 13 99 668 4 73 385.00 9 123 896.00 13 118 826 4 73 385.00 9 123 896.00 13 118 826 4 74 370.00 9 79 385.00 13 118 826 4 77 370.00 9 79 385.00 13 118 826 5 78 380.00 9 79 385.00 13 118 826	<b>2</b>	30	90.00	9	11	68.00	12	. 80	90.00
2 725 4,038.00 9 20 60.00 12 73 855 3 10 55.00 9 114 570.00 12 80 400 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 122 793.00 12 79 385 4 127 826.00 9 122 793.00 12 83 415 4 127 826.00 9 122 793.00 12 83 415 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 133 755 4 108 702.00 9 109 127 826.00 12 113 725 4 108 702.00 9 109 140 910.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 115 674 4 111 722.00 9 108 702.00 12 115 748 4 111 722.00 9 108 702.00 12 105 633 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 117 751 4 128 832.00 9 108 702.00 12 110 674 4 111 722.00 9 112 728.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 121 787.00 9 122 793.00 12 118 826 4 128 832.00 9 109 109 728.00 12 118 826 4 128 832.00 9 109 129 738.00 12 118 826 4 128 832.00 9 123 836.00 12 118 826 4 128 832.00 9 103 670.00 13 88 551 4 142 709.00 9 123 891.00 13 99 668 4 73 385.00 9 123 896.00 13 118 826 4 73 385.00 9 123 896.00 13 118 826 4 74 370.00 9 79 385.00 13 118 826 4 77 370.00 9 79 385.00 13 118 826 5 78 380.00 9 79 385.00 13 118 826	ź·····	12	66.00		30	90.00	12	20	90.00
2 725 4,038.00 9 20 60.00 12 73 855 3 10 55.00 9 114 570.00 12 80 400 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 122 793.00 12 79 385 4 127 826.00 9 122 793.00 12 83 415 4 127 826.00 9 122 793.00 12 83 415 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 133 755 4 108 702.00 9 109 127 826.00 12 113 725 4 108 702.00 9 109 140 910.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 115 674 4 111 722.00 9 108 702.00 12 115 748 4 111 722.00 9 108 702.00 12 105 633 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 117 751 4 128 832.00 9 108 702.00 12 110 674 4 111 722.00 9 112 728.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 121 787.00 9 122 793.00 12 118 826 4 128 832.00 9 109 109 728.00 12 118 826 4 128 832.00 9 109 129 738.00 12 118 826 4 128 832.00 9 123 836.00 12 118 826 4 128 832.00 9 103 670.00 13 88 551 4 142 709.00 9 123 891.00 13 99 668 4 73 385.00 9 123 896.00 13 118 826 4 73 385.00 9 123 896.00 13 118 826 4 74 370.00 9 79 385.00 13 118 826 4 77 370.00 9 79 385.00 13 118 826 5 78 380.00 9 79 385.00 13 118 826	2	12	66.00	9	30	90.00	12	30	90.00
2 725 4,038.00 9 20 60.00 12 73 855 3 10 55.00 9 114 570.00 12 80 400 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 115 575.00 12 75 375 3 11 63.00 9 122 793.00 12 79 385 4 127 826.00 9 122 793.00 12 83 415 4 127 826.00 9 122 793.00 12 83 415 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 793.00 12 80 400 4 115 748.00 9 122 133 755 4 108 702.00 9 109 127 826.00 12 113 725 4 108 702.00 9 109 140 910.00 12 115 748 4 128 832.00 9 108 702.00 12 115 748 4 111 722.00 9 112 728.00 12 115 674 4 111 722.00 9 108 702.00 12 115 748 4 111 722.00 9 108 702.00 12 105 633 4 111 722.00 9 112 728.00 12 115 748 4 111 722.00 9 112 728.00 12 117 751 4 128 832.00 9 108 702.00 12 110 674 4 111 722.00 9 112 728.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 128 832.00 9 108 702.00 12 118 826 4 121 787.00 9 122 793.00 12 118 826 4 128 832.00 9 109 109 728.00 12 118 826 4 128 832.00 9 109 129 738.00 12 118 826 4 128 832.00 9 123 836.00 12 118 826 4 128 832.00 9 103 670.00 13 88 551 4 142 709.00 9 123 891.00 13 99 668 4 73 385.00 9 123 896.00 13 118 826 4 73 385.00 9 123 896.00 13 118 826 4 74 370.00 9 79 385.00 13 118 826 4 77 370.00 9 79 385.00 13 118 826 5 78 380.00 9 79 385.00 13 118 826	2	12	66.00	9	30	90.00	12	77	885.00
4 73 365.00 9. 123 861.00 13 92 578 4 69 345.00 9. 128 890.00 13 118 590 4 74 370.00 9. 74 370.00 13 115 590 4 69 345.00 9. 79 395.00 13 115 575 4 69 345.00 9. 79 395.00 13 115 575	2	20	60.00	9	20	60.00	12	78	890.00
4 73 365.00 9. 123 861.00 13 92 578 4 69 345.00 9. 128 890.00 13 118 590 4 74 370.00 9. 74 370.00 13 115 590 4 69 345.00 9. 79 395.00 13 115 575 4 69 345.00 9. 79 395.00 13 115 575	3	725	4,038.00	ğ	114	670.00	12	13	
4 73 365.00 9. 123 861.00 13 92 578 4 69 345.00 9. 128 890.00 13 118 590 4 74 370.00 9. 74 370.00 13 115 590 4 69 345.00 9. 79 395.00 13 115 575 4 69 345.00 9. 79 395.00 13 115 575	3	lii	63.00	9	115	575. 00	12	75	875.00
4 73 365.00 9 123 861.00 13 92 578 4 69 345.00 9 128 890.00 13 118 590 4 74 370.00 9 74 370.00 13 118 590 4 69 345.00 9 79 385.00 13 115 575 4 69 345.00 9 79 385.00 13 115 575	8	11	63.00	9	110	550.00	12	81	405. 00 295. 00
4 73 365.00 9. 123 861.00 13 92 578 4 69 345.00 9. 128 890.00 13 118 590 4 74 370.00 9. 74 370.00 13 115 590 4 69 345.00 9. 79 395.00 13 115 575 4 69 345.00 9. 79 395.00 13 115 575	3	12	66.00	9	122	793.00	12	79	<b>3</b> 95. 00
4 73 365.00 9 123 861.00 13 92 578 4 69 345.00 9 128 890.00 13 118 590 4 74 370.00 9 74 370.00 13 118 590 4 69 345.00 9 79 385.00 13 115 575 4 69 345.00 9 79 385.00 13 115 575	3	20	80.00	¥	120	813.00	12	83	415.00
4 73 365.00 9. 123 861.00 13 92 578 4 69 345.00 9. 128 890.00 13 118 590 4 74 370.00 9. 74 370.00 13 115 590 4 69 345.00 9. 79 395.00 13 115 575 4 69 345.00 9. 79 395.00 13 115 575	7	127	826.00		116	754.00	12	79	400. 00 895. 00
4 73 365.00 9 123 861.00 13 92 578 4 69 345.00 9 128 890.00 13 118 590 4 74 370.00 9 74 370.00 13 118 590 4 69 345.00 9 79 385.00 13 115 575 4 69 345.00 9 79 385.00 13 115 575	4	115	748.00	9	127	826.00	12	113	735.00
4 73 365.00 9 123 861.00 13 92 578 4 69 345.00 9 128 890.00 13 118 590 4 74 370.00 9 74 370.00 13 118 590 4 69 345.00 9 79 385.00 13 115 575 4 69 345.00 9 79 385.00 13 115 575	4	107	<b>69</b> 6. 00	9	99		12	115	748.00
4 73 365.00 9 123 861.00 13 92 578 4 69 345.00 9 128 890.00 13 118 590 4 74 370.00 9 74 370.00 13 118 590 4 69 345.00 9 79 385.00 13 115 575 4 69 345.00 9 79 385.00 13 115 575	4	108	702.00	9	140	910.00	12	117	761.00
4 73 365.00 9 123 861.00 13 92 578 4 69 345.00 9 128 890.00 13 118 590 4 74 370.00 9 74 370.00 13 118 590 4 69 345.00 9 79 385.00 13 115 575 4 69 345.00 9 79 385.00 13 115 575		118	832.00 754.00	8	119	702.00	12	100	688.00
4. 73 365.00 9. 123 861.00 13. 92 578 4. 69 345.00 9. 128 890.00 13. 118 590 4. 74 370.00 9. 74 370.00 13. 118 580 4. 69 345.00 9. 79 385.00 13. 115 575 4. 72 385.00 9. 78 385.00 14 30 00	4	iii	722.00	9	113	735, 00	12	112	728.00
4. 73 365.00 9. 123 861.00 13. 92 578 4. 69 345.00 9. 128 890.00 13. 118 590 4. 74 370.00 9. 74 370.00 13. 118 580 4. 69 345.00 9. 79 385.00 13. 115 575 4. 72 385.00 9. 78 385.00 14 30 00	4	121	787.00	9	122	793.00	12	118	728. 00 826. 00
4. 73 365.00 9. 123 861.00 13. 92 578 4. 69 345.00 9. 128 890.00 13. 118 590 4. 74 370.00 9. 74 370.00 13. 118 580 4. 69 345.00 9. 79 385.00 13. 115 575 4. 72 385.00 9. 78 385.00 14 30 00	4	128	832.00	9	117	758.00	12	103	721 00
4. 73 365.00 9. 123 861.00 13. 92 578 4. 69 345.00 9. 128 890.00 13. 118 590 4. 74 370.00 9. 74 370.00 13. 118 580 4. 69 345.00 9. 79 385.00 13. 115 575 4. 72 385.00 9. 78 385.00 14 30 00	4	142	709.00	9	103	670.00	13	88	551.00
4 1 771 965 NO 1 O 1 781 980 NO 1 14 1 90 1 WO	<b>3</b> ·····	72	965.00	å	123	861.00	13	92	878 M
4 1 771 965 NO 1 O 1 781 980 NO 1 14 1 90 1 WO	4	69	345.00	9	128	896.00	13	118	590.00
4 1 72 1 265 nn 11 O 1 78 1 280 nn 11 14 1 30 1 Un	4,	74	370.00	9	74	370.00	13	118	590. OO
4 1 72 1 265 nn 11 O 1 78 1 280 nn 11 14 1 30 1 Un	4	69	845.00	9	79	395.00	13	115	575.00 90.00
4	<b>4</b>	73	365.00	, 6	76	380.00	14	30	90.00 66.00
4   200   2 022 00   0   75   275 00   14   12   A6	<i>-</i>	75	375.00	9	78	390.00	14	12	66, 00
Tanana COT   #4VM4.UU    F	4	369	2,022,00	9	75	875.00	14	12	66.00

Pulp woods imported from Canada into the district of Champlain, port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

Date of surival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
1907.	Cords.		1907.	Cords.			Cords.	
Bept. 14	18	\$99.00	Sept.19	71	\$355.00	1907. Sept. 26	95	\$618.00
14	12	66. 00 66. 00 90. 00	19	78	390.00		111	722.00
14	12	66.00	19	75 73	375. 00 365. 00	26 26 26	104 108	676. 00 702. 00
14 14	30 20	60:00	19	75	375.00	26	121	847.00
14	169	1,040.00 405.00	19	75 78	375. 00 890. 00	27	121 25 20	148.00
14 16	81 74	405.00	19	76	<b>380.00</b>	27	20	60.00
16 16 16 16	74	<b>370.00</b>	19	75 95	375. 00 617. 00	27	12 12	66.00
16	76 79	380.00 895.00	19	110	715.00	27	12	66. 00 66. 00
16	131	895. 00 917. 00	19	108	715.00 702.00	27	20 132	60.00
16	121	847.00	19	121	787.00 812.00	27	132	924.00
10	105	682.00	19	125	812.00	27	136	952.00
16 16	122	793. 00	19	11 275	63.00 1,530.00	27	127 129	889. 00 903. 00
16	96 101	624.00 657.00	20	20	60.00	27	122	854. 00
16 16	114	741.00	20	30	90.00	27	117	819.00
36 1	133	865.00	20	30	90.00	27	136	952.00
16	130	845.00	20	30	90.00	27	136	952.00
16	124 124	806. 00 806. 00	20	12 12	66.00 66.00	27	102 108	663. 00 702. 00
16 16 16	11	61.00	20	20	60.00	27	114	741, 00
	9	61. 00 51. 00	19	159	879.00	# # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #	105	683, 00
16 16	12	66.00	21	10 12	52.00	27	107	696, 00 728, 00
16	11 12	63. 00 66. 00	21	30	66.00	27	112 128	728.00 832.00
16 1 <b>6</b>	12	66.00	21	40	90. 00 220. 00	27	107	696. 00
16 1	12 12	66.00	23	69	345.00	27	115	748.00
16	18	99.00	23	71	355.00		123	800.00
16 16	20 20 202	60.00	23	72 71	360.00	28 28 30	327 10	1,837.00
	20	65. 00 972. 00	23	116	355, 00 754, 00	30	115	55, 00 652, 00
16 17	14	70.00	23	123	800.00	30	89	554. 00
17	154	883.00	23	118	767. 00 683. 00	30	89	555, 00
17	20	65.00	23	105	683.00	30 30 30	138	690.00
17 17 17 17 17 17	20 20 30 30 30 30	65. 00 90. 00	23	119 123	833. 00 861. 00	30	132 112	660. 00 570. 00
17	30	90.00	23	111	779.00		77	285.00
17	30	90.00	23	123	861.00	30	77 76	380, 00
11	30	90.00	23	123	861.00	30	79	395, 00
17	30 120	90.00	23	90 20	495.00	30	78 78	390.00 390.00
17	90	630.00 495.00	23	20	65. 00 65. 00		70	290.00
17	90	495.00 495.00	23	20 12	63.00 [	30	78 77	885, 00
17 17 17	105	579.00	23	10	65. 00 2,630. 00	30 30	136	884.00
17	97	534.00	23	476	2,630.00		139	871, 00 754, 00
18	12	66. 00 <b>90</b> . 00	24	10	55.00 805.00	30 30	116 131	852 00
18 18	80 20 12	60.00	24	50 20	70.00	30 30	119	852 00 774 00
10	12	60. 00 66. 00	24	30	90.00	30	126	819.00 787.00
18	72 79	360.00	24	12	66. 00 66. 00	30	121	787.00 90.00
18	79	895.00 855.00	24 24 24 25	12 30	90.00	30	30 30	00.00
18 18	84	855. 00 470. 00	24	30 20	60.00 i	200		61.00 72.00 79.00
18	83	415.00	24	12	66.00	30 30 30	11 13	72.00
18	106	con on	25	14	84.00	30	18	79,00
18	162 114	1, 134. 00 798. 00	25	12 11	65. 00 63. 00	] 30 30	16 30	48.00
18 18	165	1,155,00	25	20	60.00			90.09 90.00
181	114	1,155.00 798.00	25	30	90.00	30	30	90. 09 66. 00
18	122	854.00	26	20	60.00	30 30 30	12	66.00
18	114 102	741.00 663.00	20	129 126	645. 00 631. 00	30	30 30	90, 00
18 18	102	825.00	26	124	631.00 622.00	Oct. 1	9	80.00
18 !	107	695. 00 689. 00	26	81	405.00	i	10	90. 00 60. 00 60. 00
18	106	689.00	26	82	410.00	1	20	60.00
18 18	115	805.00	26	112 97	728.00	1 1	40 14	220.00 53.00
18	101 116	707, 00 812, 00	26	117	631.00 679.00	2	84	504.00
18	104	728, 00	26	103	670. 00 670. 00	3	12	66,00
18	106	742.00	26	163	670.00	3	12	66, 00
18	117	819.00	26	111	777. (10)	3	12	66.00
18 19	40 72	<b>22</b> 0. 00 <b>3</b> 60. 00	26 26	115 120	805, 00 840, 00	3	11 20	61. 00 00. 00
19	80	400.00	9ĸ	78	507.00	4	12	66,00
19 19	80 70	400.00 350.00	26	78	507.00 507.00	4	12 20	66. 00 60. 00

Pulp woods imported from Canada into the district of Champlain, port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

			(2000)	31 11 <del>00</del> 01	· uu•y•j			
Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
1907.	Cords.		1907.	Corda.		1907.	Cords.	
Oct. 4	20 20 30	\$65.00	Oct. 8	20	\$80.00	Oct. 14	101	\$657.00
4 4	20	60. 00 90. 00	8	20 133	80.00 931.00	14	130 124	845.00 806.00
4	101	A5: 00 I	10	124	868, 00	14	109	709. 00
4	40	220.00	10	111	798.00 777.00	14	123	800.00
5 5 5	92	599, 00 90, 00 60, 00	10	111 116	777. 00 812. 00	14	12 9	60. 00 50. 00
5	20	60.00	10	135	945.00	14	20	60.00
	20	66.00	10	102	945. 00 721. 00 938. 00	14	20 18	54.00
ş	30 30 30 30 30 30 30 30	65. 00 61. 00 66. 00 90. 00	10	134 113	735.00	14	12 18.	60. 00 54. 00 66. 00 99. 00
5	30	90.00	10	98 109	637.00	14	12	66, 00
5	20	60.00	10	109	637.00 709.00	14	12 12	66. 00 62. 00
ş	30	90.00	10	108 109	702.00 709.00	14	12 81	62, 00 176, 00
5	30	90.00 90.00 90.00	10	113	735, 00	15	79	395.00
<b>5,</b>	30	90.00	10	112	728.00 741.00	15	85 86	425.00
7	117	761, 00 754, 00 852, 00	10	114	741.00 634.00	15	105	430. 00 525. 00
7	116 131	852.00	10	97 103	634. 00 670. 00	15	105 105	525.00
7	175	I 913 AA I	10	78	365.00	15	94	470.00
7	129	839.00	10	74	370.00 305.00	15	95 115	475.00
7	129 125 117	813. 00 760. 00	1907. Oet. 8 8 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11	74 60 72 20 21 20 12	360.00	1907. Oct. 14 14 14 14 14 14 14 14 14 15 15 15 15 15 15 15 15 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	112	448. 00 728. 00
7	109	709. 00 1,073. 00 889. 00	10	20	360.00 80.00	15	101	657.00
7	165 127	1,073.00	10	21	84. 00 80. 00	15	108	702.00
7	111	777.00	10	12	66.00	15	112 106	728.00 690.00
7	121	847.00	10	12	66.00	15	108	702, 00
7	127	889. 00 861. 00	10	12 12	66.00	15	102	663.00
7	123	861.00	10	12	66.00	15	110 109	715.00 709.00
7	123 123 114	570.00 505.00	10	20	66.00 66.00 60.00	15	113	735.00
7	101		10	20	80.00	15	109	735.00 709.00 90.00
7	122 113 99 85 86	608. 00 566. 00 395. 00 425. 00 430. 00	10	12 20 20 20 20 73	90.00 389.00	15	30 30 30	90.00
7	99	395.00	ii	15	75.00	15	30	90.00
7	85	425.00	11	12 12	66. 00 66. 00	15	100 26 30 12 20	542.00
7	78	390.00	11	30	90.00	16	20	184.00 90.00
7	.1 80	390, 00 440, 00 570, 00 620, 00	ii	30 30 12	90.00	16	12	65.00
7	114	570.00	11	12 12	66. 00 66. 00	16	20	80.00
7	124	529.00	11	12	66.00	16	115 112	805. 00 784. 00
7	91	570.00	11	12 12	66,00	16	95	665, 00
7	84 91 30 20	90.00	11	12	66.00	16	110	770.00 749.00
7	20	60, 00 90, 00 66, 00	11	30 30	90. 00 90. 00	18	107 110	749.00 770.00
7	. 12	66.00	ii	20 24 20	60.00	16	113	791.00
7	20 127	80.00 826.00	12	24	96.00	16	115	805.00
7	127	854.00	12	12	60. 00 96. 00 65. 00 60. 00	16	114 106	798. 00 742. 00
7	132	854. 00 924. 00	12	20 12	60.00	16	121	847.00
7	128	819.00	12	12	63. 00 70. 00	17	121 30 20 41 20 20 30 12	90.00
7	. 100 93	650. 00 651. 00	12	20 20	70.00 70.00	17	20	60. ₀ 0 154.00
7	. 117	819. 00 826. 09	12	99	563. 00 512. 00	19	20	60.00
7	. 118	826.00	14	93 122	512.00	19	20	60.00
7	. 103 123	721, 00 800, 00	14	132	608. 00 662. 00	19	12	90.00 66.00
7	. 131	852.00	14	76	380.00	21	90	460.00
7	89 ا.	1 579.00	14	108	1 756.00	21	87	435.00
7	. 84 75	420.00 375.00	14	113	791.00 714.00	21	70	350.00 350.00
<del>7</del>	. 75 . 82	375. 00 410. 00	14	122	714.00 854.00	21	90 87 70 70 80 72 73 72	400.00
7	80 72 71	400.00	14	129	903.00	21	72	360.00
7	72	360. 00 355. 00	14	92 118	644.00 826.00	21	73	365.00 360.00
<b>7</b>	74	370.00	14	126	882.00	21	74	370.00
7	. 74 94 87 20	<b>534.</b> 00	14	112	784.00	21	132	660.00
8	- 87 20	482.00 60.00	14	95 117	665. 00 819. 00	21	114 108	570.00 756.00
8	12	66,00	14	102	714.00 754.00	21	120	840, 00
8	. 9	50.00			754.00	21	118	826.00
<b>5</b>	. 20 20	60.00 80.00	14	110 105	715.00 683.00	21	100 125	742. 00 813. 00
<b>3</b>	ىد .	,	µ 17	. 100	, 000.00	********	. 140	810.00

Pulp woods imported from Canada into the district of Champlain, port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
1907.	Cords.		1907.	Cords.		1907.	Cords.	
Oct. 21	. 109	\$709.00	Oct. 25	20 30	\$60.00	Oct. 31	. 9	\$50.00
Oct. 21	95	618.00	25 25	30	90.00	81 Nov. 1	12	66.00
21 21	116	754.00 670.00	25 25	30 20 12	90. 00 60. 00	MOV. 1	20 30 20 108	60. 00 90. 00
21	134 123 30 20 30 30 30 30 21 12	615.00	25	12	RK OO	1	20	60.00
21	30	615.00 90.00 60.00	25	12	66.00 659.00 60.00	i	108	540.00
21	20	60.00	25	116	659.00	i	1101	580.00
21	30	90.00	26	20	60.00	1	124	<b>62</b> 0. <b>00</b>
21	30	90.00	26	20 30 20 48 12 20 30	90.00	2	12 30 20 20 20 30 30	66.00
21	30	90.00 90.00 64.00	26	20	60.00 269.00	2	30	90. 00 60, 00
21	30	90.00	26 28	18	269.00	2	20	60.00
21	21	96.00	28	12	66.00 60.00 90.00	<b>5</b> ·····	20	60. 00 90. 00
21	30	66.00 90.00 1,158.00 582.00	28	30	90.00	5	30	90.00
21	219	1 158 00	28	9	50 00	2	18	99.00
22	110	582.00	28	106	742.00	2	20	90.00
22	219 110 20 20 12 12 20 30 74 71 79 74 72 72	60. 00 60. 00	28	119	742.00 833.00 840.00 875.00	2	30 124 101 103	90. 00 597. 00
22	20	60.00	28	120 125	840.00	4	101	505.00
22	12	66.00	28	125	875.00	4	103	515.00
22	12	66.00	28	110		4	91	455.00
22	20	60.00	28	104	676.00	4	91 80 77 86	400.00
22	30	90.00 370.00	28 28	118	767.00	4	77	885.00
23 23	74	370.00	28	108 107	606.00	<b>5</b>	80	430. 00 870. 00
23	71	355.00 395.00	28	126	676. 00 767. 00 689. 00 696. 00 630. 00	]	74 92	460.00
23	74	370.00	28	20	60.00	7	66	330. 00
23	72	360.00	28	20 18	99.00	4	83	415.00
23	71	355.00	28	20	99. 00 60. 00	4	171	855.00
23 23	72	360.00	28	20 12 18	66, 00	4	83 171 129	648.00
23	78 117	365.00	28	18	99. 00 66. 00	4	118	767.00
23	117	761.00	28	12	66.00	4	113	735.00
23	129	839.00	28	12 12 12	66.00	4	122 127 138	793.00
23	116	754.00	28	12	66.00	4	127	826.00
23	124	800.00	28 28	12	66.00	4	138	897.00
23	129 116 124 105 104	754.00 806.00 683.00 676.00	28	12	66. 00 66. 00	2	100 175	700. 00 1, 225. 00
23	73	475.00	28	12	66.00	3	124	868.00
23	111	777.00	28	12	63.00		107	749.00
23 23	129	903.00	28	20	60.00	4	12	66.00
23	111 129 112	784.00	28	9	50. 00 652. 00	4	12 20	60.00
23	117	819.00	28	132	652.00	4	20	60.00
23	115	805.00	29	30	90.00	4	18	99.00
23 23 23	133 129 102	931.00	29 29	10	55.00	4	.9	50.00
23	102	903. 00	29	115	575. 00 865. 00	*****	20 22	60. 00 66. 00
23	102	714.00 471.00	29	133 117	761 00	7	18	99.00
23	90 90	473.00	29		761.00 689.00 579.00	3	170	1,015.00
23	111	555.00	29	89	579.00	5	170 130	733.00
23	12	66.00	29	86	<b>559.00</b>	5	111	722.00
23 23	12	66.00	29	80	559. 00 520. 00 761. 00	5	106	689.00
23	111 12 12 12 12 20 30	66.00	29 29	89 86 80 117	761.00	5	115	748.00
23 23	20	60.00	29 29	14-3	800. 00 819. 00	5	104	676.00
23	10	165.00 55.00	29	117	819.00	2	107 107	696, 00 696, 00
24	108	702.00	29	128 128	808 OO	g	116	754.00
24	108 122	793.00	29	119	896. 00 833. 00	š	110 1	715.00
24	115 107	748.00	29	81	405.00	5	110 79	715.00 895.00
24	107	696.00	29	81 80	400.00	5	75	375.00
24	112	728.00	29	81	405.00	5	77	385.00
24	114	741.00	29	70	350.00	5	75	<b>375.00</b>
24	115 107	748.00	29	64 78	320.00	5	74 78 73	370.00
24	107	696.00	29 29	78	390.00	5	78	380.00
24	107	696. 00 360. 00	29	59 75	295.00	<u> </u>	73	365.00
24	72 77 79 74 75	385.00	29	137	375.00 715.00	2	73 67	390. 00 335. 00
24	79	395.00	30	40	202.00	5	72	360.00
24	74	370.00	30	36	153.00	6	30	90.00
24	75	375. 00 375. 00 121. 00	30	36 12	153. 00 63. 00	6	30 20	60.00
24	75 22	375.00	30	12	66.00	6	11	60. <b>00</b>
24	22	121.00	30	12	66.00	6	12	66, 00
25	9	50.00 90.00	30	12	66.00	6	11	62.00
25	30	90.00	30	12	66.00	<u>  6</u>	11	00.00
25 25	30 20 30 30	80.00 90.00	اق	12 80	66. 00 90. 00	<u> </u>	30 12	90.00 66.00

Pulp woods imported from Canada into the district of Champlain, port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
1907.	Cords.		1907.	Cords.		1907.	Corde.	
₹0 <b>7</b> 7	18 131	<b>\$99.00</b> 723.00	Nov. 18 18	115 121	\$805.00	Nov. 25 25	18 18	<b>899.</b> 0
8	117	761.00	18	115	847. 00 805. 00	25	18	99.0
8	119	774.00 683.00	18 18 18	122	854.00	25	12	66. 0
, 8	105	683.00	18	122	610.00	25	12	66.0
8	105 105	683. 00 683. 00	18 18	72 106	365.00	25 25	12	66.0
8	100	650.00	18	111	530. 00 555. 00	25	12 12	66. 0 66. 0
8	99 121	693.00	18	105 103	525. 00 515. 00	25	9	50.0
8	121	847.00	18	103	515.00	25	12	66. 0 99. 0
8	131 122	917. 00 854. 00	18	72 77	360. 00 385. 00	25 25	18 79	99. 0 443. 0
8	126 135 69 80 81	882 00	18 18 18	120	720 00	26	20	60.0
8	135	945.00 845.00	18	120	720.00 845.00 910.00 800.00	26	30	90.0
<b>8</b>	60	845.00	18	130	845.00	26	30	90.0
B	80	400.00 405.00	1 X	140 113	910.00	26	20	60. 0
8	78	390.00	18 18	12	66. 00 66. 00 60. 00 90. 00 66. 00	26 26	20 30 30 20 20	60. 0 88. 0
8	11	89.00	18	12 1	66.00	26	30	175.0
8	20 100	89. 00 80. 00	18	20 30	60.00	27	30 20 18 12	60. 0
8	100	465.00	18	30	90.00	27	18	99.0
9	105	683.00	18 18	12 12	66.00	27	12 84	66. 0 470. 0
9	105 103	683. 00 670. 00	18	12	66.00	27 27 27	89	445. 0
9	118	767 00 1	18	236	66.00 1,225.00	27	89 97	679.0
9	104 108	676. 00 540. 00 370. 00 365. 00	19	12	66. 00 66. 00	27 27	68 82 20 20 30 12	476. 0
9	108	540.00	19 19	12	66.00	27	82	574.0
0	71	355.00	20	147 120	818.00	28 28	20	80. 0 60. 0
9	80	1 400.00	l 20	104	600. 00 820. 00	28	30	90.0
9	80	l 400.00 l	220	12	66, 00	28	12	90. ( 66. (
9	74 71 80 80 68 74 73 79 90 12	840.00	20	10	55.00	28	10	55.0
9	73	870. 00 865. 00	20	90 119	455. 00 833. 00	29 29	13 11	72.0
9	1 79	395.00	21	121	847.00	29	10	81. 0 58. 0
9	90	450.00	21	122	847. 00 854. 00 832. 00	29	10 98	672.
9	12	66.00	21	119	832.00	29	90	630. 0
9	12	66.00 \$0.00	21 21	113 119	791. 00 833. 00	29	91	637. 0
9	12	99.00	21	80	400.00	30	30 30 10	165.0 90.0
9	30	99.00 90.00	21	67	335.00	Dec. 2	10	86.0
9	30 20 12	65. 00 66. 00	21	77	385.00	2	12	66.0
,9	12	66.00	21	72	360. 00 365. 00	2	11	61.
11	126	50.00 630.00 1,262.00	21	73 97 85	485.00	3	20 12	60. ( 66. (
11	225 20 156	1,262.00	21	85	485. 00 425. 00	2	18	99.
12	20	1 90.00	21	78	390.00	2	12	99. ( 66. (
12 13	156	771.00 66.00	21 21	86	431.00	2	12	66. (
13	12 18	90.00	21	78 77	890.00 539.00	3	9	50. 6 60. 6
13	12	99. 00 66. 00	21	78	408.00	2	20 107	577. (
13	12 12	66.00	22	70	408.00 870.00	8		90. (
13	12	66.00 66.00 787.00	22 22	12	66. 00 66. 00	8	20 20 20 20 12	60. ( 70. (
13	121 122	787.00	22	12	66.00 50.00	3	20	70. (
13	117	793.00 761.00	23	20	60.00	8	12	66.0
13	124	806.00	23	20	70.00	3	12	66. 66.
13	121	806. 00 787. 00 370. 00	23	12	88 00	8	9	44.
13 13	74 98	870.00 490.00	23 23	78 130	891, 00 660, 00 860, 00	4	20	60.
14	14	40.00	23	110	850.00		18 26	70.
14	14 160 94 20 12	880.00	23	113	565.00		66	358.
15	94	880.00 522.00	23	110	550. 00 651. 00	5	18 36	99. 189.
16	20	80.00 66.00	23	93 82	651.00	5	86	189.
16	12	66.00 66.00	23 23	82	574.00 331.00	6	12	50.
16	12	66.00	25	19	99.00	A	12	66. (
16	12 12 12 12	l 66.00 l	25	18 12	66, 00	6	12 12 20 10	66.
16	12	66.00 635.00	25	12	66.00	6	20	65.
15	127	636.00	25	12	66.00	[ 6	10	55.
10	127 134 128	670. 00 640. 00 735. 00	25 25	12 12	66.00	<b>2</b>	10 11	55. 61.
18	113	735.00	25	12	66. 00 66. 00	6	25	150.0
18	117	761.00	25	12	66.00	7	12	66.
18 18	123 121	800.00 787.00	25 25	12 10	66.00 55.00	7	9	50. 90.

Pulp woods imported from Canada into the district of Champlain, port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

Date of arrival   Clustrative   Cords   Cords   Section   Cords				[Entere	d ires o	auty.j			
Dec.   9   \$50,00   Dec.   23   30   \$50,00   Jan.   3   10   \$82,00		Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
Dec.   9   \$50,00   Dec.   23   30   \$50,00   Jan.   3   10   \$82,00	1007	Corde	-	1907	Corde		1008	Cords	
9	Dec. 9	0	<b>\$</b> 50.00	Dec 22	30	\$90.00	Jan. 3	10	\$52.00
	9	10	55,00	23	30	90.00	3		50.00
	9	12	66.00	23	168	1.036.00	3		52.00 66.00
11.	9	18	99.00	24	30	90.00	3		66.00
11.	9	62	360.00			90.00	3	30	90.00
11.	10	20	60.00	25	30	90.00	3	20	60.00
11.	10	20	60.00	25	20	60.00	3	30	90.00
11.	10	18	99.00	25		51.00	3	30	90.00
11.	10	30	90.00	26		60.00	3	15	90.00
11.	10	70	385,00	26	30	90.00	4	30	90.00
11.	11	61	347.00	26	20	60.00	<b>1</b>	30	90.00
11.	11	20	60.00	27	51	306, 00	4	20	80.00
11.	11	20	60, 00	27	30	90.00	4	20	65.00
11.	11	30	90.00	27	30	90.00	4	12	50.00
11.		30	90.00	27	30	90, 00	<b></b>	76	458.00
12.	11	9	50.00	27	30	90.00	6	12	62.00
13.	12	20	178.00	27	30 12	90.00	5	10	51.00
13.	13	20	1 70.00 l	27	11	63.00	6	20	80.00
13.	13	10	55.00	• 27		66.00	6	22	128.00
17. 10 66.00 30. 30 90.00 7. 1115 658.00 17. 112 66.00 30. 9 50.00 8. 12 66.00 17. 12 66.00 30. 12 66.00 8. 12 66.00 18. 12 66.00 30. 18 99.00 8. 12 66.00 18. 30 90.00 30. 12 66.00 8. 12 66.00 18. 30 90.00 30. 12 66.00 9. 12 66.00 18. 30 90.00 30. 12 66.00 9. 12 66.00 18. 30 90.00 30. 12 66.00 9. 12 66.00 18. 30 90.00 30. 12 66.00 9. 12 66.00 19. 63 323.00 30. 11 66.00 9. 11 63.00 19. 63 323.00 30. 11 66.00 9. 11 63.00 19. 30 90.00 30. 12 66.00 9. 15 66.00 20. 20 70.00 30. 12 66.00 9. 15 66.00 20. 10 55.00 30. 12 66.00 10. 20 115.00 20 12 66.00 30. 12 66.00 10. 20 115.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 13 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 30 90.00 1. 18 90.00 20 30 90.00 1. 18 90.00 20 31 66.00 30 90.00 20 31 66.00 30 90.00 20 31 66.00 30 90.00 20 31 66.00 30 90.00 20 31 66.00 30 90.00 21 10 66.00 30 90.00 22 31 13 65.00 1. 20 66.00 10. 30 90.00 23 31 12 66.00 2. 14 69.00 10. 30 90.00 24 31 31 65.00 1. 12 66.00 10. 30 90.00 25 32 20 60.00 3. 20 60.00 10. 30 90.00 26 33 90.00 1. 12 66.00 10. 30 90.00 27 31 12 66.00 2. 14 69.00 10. 30 90.00 28 31 13 65.00 1. 20 66.00 10. 30 90.00 29 32 31 13 65.00 1. 20 66.00 10. 30 90.00 20 31 12 66.00 2. 14 69.00 10. 30 90.00 21 11 18 90.00 22 32 30 90.00 1. 12 66.00 11. 18 90.00 23 32 20 60.00 3. 20 60.00 11. 18 90.00 23 32 30 90.00 3. 20 60.00 11. 18 90.00 23 32 30 90.00 3. 20 60.00 11. 18 90.00 23 32 30 90.00 3. 20 60.00 11. 18 90.00 23 32 30 90.00 3. 20 60.00 11. 18 90.00 23 32 30 90.00 3. 20 60.00 11. 18 90.00 23 32 30 90.00 3. 20 60.00 11. 18 90.00 23 32 30 90.00 30 90.00 30 90.00 11. 18 90.00 23 32 30 90.00 30 90.00 30 90.00 11. 18 90.00 23 32 30 90.00 30 90.00 30 90.00 11. 18 90.00 23 32 30 90	13 13	12	61.00	27	20	90.00	7	20	90.00
17. 10 66.00 30. 30 90.00 7. 1115 658.00 17. 112 66.00 30. 9 50.00 8. 12 66.00 17. 12 66.00 30. 12 66.00 8. 12 66.00 18. 12 66.00 30. 18 99.00 8. 12 66.00 18. 30 90.00 30. 12 66.00 8. 12 66.00 18. 30 90.00 30. 12 66.00 9. 12 66.00 18. 30 90.00 30. 12 66.00 9. 12 66.00 18. 30 90.00 30. 12 66.00 9. 12 66.00 18. 30 90.00 30. 12 66.00 9. 12 66.00 19. 63 323.00 30. 11 66.00 9. 11 63.00 19. 63 323.00 30. 11 66.00 9. 11 63.00 19. 30 90.00 30. 12 66.00 9. 15 66.00 20. 20 70.00 30. 12 66.00 9. 15 66.00 20. 10 55.00 30. 12 66.00 10. 20 115.00 20 12 66.00 30. 12 66.00 10. 20 115.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 13 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 30 90.00 1. 18 90.00 20 30 90.00 1. 18 90.00 20 31 66.00 30 90.00 20 31 66.00 30 90.00 20 31 66.00 30 90.00 20 31 66.00 30 90.00 20 31 66.00 30 90.00 21 10 66.00 30 90.00 22 31 13 65.00 1. 20 66.00 10. 30 90.00 23 31 12 66.00 2. 14 69.00 10. 30 90.00 24 31 31 65.00 1. 12 66.00 10. 30 90.00 25 32 20 60.00 3. 20 60.00 10. 30 90.00 26 33 90.00 1. 12 66.00 10. 30 90.00 27 31 12 66.00 2. 14 69.00 10. 30 90.00 28 31 13 65.00 1. 20 66.00 10. 30 90.00 29 32 31 13 65.00 1. 20 66.00 10. 30 90.00 20 31 12 66.00 2. 14 69.00 10. 30 90.00 21 11 18 90.00 22 32 30 90.00 1. 12 66.00 11. 18 90.00 23 32 20 60.00 3. 20 60.00 11. 18 90.00 23 32 30 90.00 3. 20 60.00 11. 18 90.00 23 32 30 90.00 3. 20 60.00 11. 18 90.00 23 32 30 90.00 3. 20 60.00 11. 18 90.00 23 32 30 90.00 3. 20 60.00 11. 18 90.00 23 32 30 90.00 3. 20 60.00 11. 18 90.00 23 32 30 90.00 3. 20 60.00 11. 18 90.00 23 32 30 90.00 30 90.00 30 90.00 11. 18 90.00 23 32 30 90.00 30 90.00 30 90.00 11. 18 90.00 23 32 30 90.00 30 90.00 30 90.00 11. 18 90.00 23 32 30 90	13	20	70.00	27	30	98.00	7	30	90.00
17. 10 66.00 30. 30 90.00 7. 1115 658.00 17. 112 66.00 30. 9 50.00 8. 12 66.00 17. 12 66.00 30. 12 66.00 8. 12 66.00 18. 12 66.00 30. 18 99.00 8. 12 66.00 18. 30 90.00 30. 12 66.00 8. 12 66.00 18. 30 90.00 30. 12 66.00 9. 12 66.00 18. 30 90.00 30. 12 66.00 9. 12 66.00 18. 30 90.00 30. 12 66.00 9. 12 66.00 18. 30 90.00 30. 12 66.00 9. 12 66.00 19. 63 323.00 30. 11 66.00 9. 11 63.00 19. 63 323.00 30. 11 66.00 9. 11 63.00 19. 30 90.00 30. 12 66.00 9. 15 66.00 20. 20 70.00 30. 12 66.00 9. 15 66.00 20. 10 55.00 30. 12 66.00 10. 20 115.00 20 12 66.00 30. 12 66.00 10. 20 115.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 13 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 12 66.00 30. 30 90.00 20 30 90.00 1. 18 90.00 20 30 90.00 1. 18 90.00 20 31 66.00 30 90.00 20 31 66.00 30 90.00 20 31 66.00 30 90.00 20 31 66.00 30 90.00 20 31 66.00 30 90.00 21 10 66.00 30 90.00 22 31 13 65.00 1. 20 66.00 10. 30 90.00 23 31 12 66.00 2. 14 69.00 10. 30 90.00 24 31 31 65.00 1. 12 66.00 10. 30 90.00 25 32 20 60.00 3. 20 60.00 10. 30 90.00 26 33 90.00 1. 12 66.00 10. 30 90.00 27 31 12 66.00 2. 14 69.00 10. 30 90.00 28 31 13 65.00 1. 20 66.00 10. 30 90.00 29 32 31 13 65.00 1. 20 66.00 10. 30 90.00 20 31 12 66.00 2. 14 69.00 10. 30 90.00 21 11 18 90.00 22 32 30 90.00 1. 12 66.00 11. 18 90.00 23 32 20 60.00 3. 20 60.00 11. 18 90.00 23 32 30 90.00 3. 20 60.00 11. 18 90.00 23 32 30 90.00 3. 20 60.00 11. 18 90.00 23 32 30 90.00 3. 20 60.00 11. 18 90.00 23 32 30 90.00 3. 20 60.00 11. 18 90.00 23 32 30 90.00 3. 20 60.00 11. 18 90.00 23 32 30 90.00 3. 20 60.00 11. 18 90.00 23 32 30 90.00 30 90.00 30 90.00 11. 18 90.00 23 32 30 90.00 30 90.00 30 90.00 11. 18 90.00 23 32 30 90.00 30 90.00 30 90.00 11. 18 90.00 23 32 30 90	13	110	<b>60</b> 5.00	28	12	66.00	7	30	90.00
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23 20 60.00 3 12 66.00 11 18 90.00 23 30 90.00 3 12 66.00 11 10 85.00 23 20 60.00 11 20 60.00	23	30	90.00	3	20	90.00	ļ!	19	95.00
23 20 60.00 3 12 66.00 11 18 90.00 23 30 90.00 3 12 66.00 11 10 85.00 23 20 60.00 11 20 60.00	23 23	20 20	60,00 Qn. nn	3	20 20	60.00 \	11	18	90.00
23 20 60.00 3 12 60.00 11 10 55.00 23 30 90.00 3 20 60.00 11 20 60.00 23 30 90.00 8 12 66.00 11 20 60.00	23	20	60.00	3	12	66.00	ii	18	90.00
28 30   90.00   8   12   66.00   11   20   60.00	23	20	60.00	3	12	66, 00	11	10 1	<i>5</i> 5. 00
	23	30	90.00	8	12	66.00	ii	20	60.00

Pulp woods imported from Canada into the district of Champlain, port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
1908.	Cords.	250.00	1908. Jan. 20 20	Cords.		1908.  Jan. 24.  24.  24.  24.  24.  24.  24.  24.	Cords.	
Jan. 11 11	30	\$60.00 90.00	20	12	<b>\$66.00</b> 66.00	Jan. 24	30 30	\$88. 00 98. 00 80. 00 80. 00 80. 00 80. 00 80. 00 88. 00 80. 0
11	20 30 20 20 30 30 10 20 211	90.00 60.00 90.00 90.00 55.00 90.00	20	16	80.00 '	24	14	70.00
11 11 11	20	60.00	20	14	70.00 70.00	24	20	80.00
11	30	90.00	20	14	70.00	24	20 20 20 20 33 22 22 22 22 22 22	80.00
	30	90.00	20	14 14	70.00 70.00	24	20	80.00
13	20	90.00	20	22	I 88.00 ∣	24	20	80.00
13 13 13 13 13	211	1, 180. 00	20	22 20 22 22 20 22 22 22 20	80. C0 88. 00 88. 00 80. 00	24	33	99.00
13	20 12 12	80.00	20	22	88.00	24	22	88.00
13	12	66.00	20	22	88.00	24	22	88.00
13 13 13	30	90.00	20	20	80.00 88.00 88.00	24	22	88.00
13	1 19 1	81.00	20	22	88.00	24	22	88.00
13	30	90.00	20	20	80.00	24	22	88.00
13 13 13	30 12 30 19 12	95.00 66.00	20	20 16	80.00 65.00 80.00	24	22	88.00
13	1 10 1	66.00	20	20	80.00	24	169	1 994 00
13	12	66.00	20	20 175	999.00	25	14	70.00
13	12	66.00	21	501	<b>3,2</b> 28.00	25	10 14	50.00
14	30	90.00	21	20 30	70.00	25	14	70. 00
13 13 14 14	30	90.00	21	20	80.00	23 25	14 16	70.00
14	30	90.00	21	20	80.00	25	22	88.00
14	30	86.00 80.00 81.00 90.00 95.00 85.00 66.00 66.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	21	20 20 20 20 21	80.00 999.00 <b>3,228.00</b> 70.00 90.00 80.00 80.00 80.00	25	22 24 14 14	<b>9</b> 6.00
14	30	90.00	21	20	80.00	25	14	<b>7</b> 0. 00
14	19	95.00	21	10	88.00 55.00 55.00 55.00 55.00 55.00 77.00	25	14	70.00
14	18	90.00	21	10	55.00	25	14	70.00
14	18	90.00	21	10	55.00	25	14	70.00
15	30	90.00	21	10	55.00	25	14	70.00
15	30	90.00	21	10	55.00 77.00	27	14 14	70.00
15	30	90.00	21	14 14	77.00	27	16	80.00
15. 15. 15. 15. 15. 15. 15. 16. 16. 16. 16. 16. 16. 16. 16.	30 30 30 30 30 30 19 18 30 30 30 30 30 30 30 30 30 30 30 30 30	90.00 90.00 90.00 90.00 90.00 90.00 1,274.00 90.00 90.00 90.00 90.00	21	16	88.00 70.00 80.00 80.00 80.00 88.00	27	14	96. 00 70. 00 70. 00 70. 00 70. 00 70. 00 70. 00 80. 00 80. 00 80. 00 80. 00 80. 00 80. 00 80. 00 80. 00 80. 00
15	30	90.00	22	<b>*************************************</b>	70.00	27	14	70.00
15	30	90.00	22	20	80.00	27	16 14	80.00
15	212	1,274.00	22	20	80.00	27	20	80.00
16	30 16	90.00	22	22	88.00	27	20	80.00
16	16	64.00	22	22	88.00	27	20	98.00
16	30 30 12	90.00	22	22	88.00 88.00	27	20 20 20 20 30 20 20 20	80.00
16	12	66.00	22	22	982 NO I	27	20	65, 00
16	19	95.00	22	30	90.00 88.00 60.00	27	20	65.00
16	10 189	50.00 1,087.00	22	22	88.00	27	30 10	98.00
17	20	60.00	22	20	88.00	27	20	80. 00 80. 00 80. 00 80. 00 80. 00
17	20 20 30	60.00	22	22	88. 00 88. 00	27	20	80.00
17	30 19	90.00	22	22		27	20	80.00
17	30	90.00	22	22	88.00	27	20	80.00
17 17 17 17 18 18	194	90.00 90.00 95.00 95.00 75.00 90.00 90.00 90.00 60.00 60.00 66.00 66.00 66.00 75.00	22	20	88.00 88.00 88.00 80.00 90.00 80.00 80.00 80.00	27	20 20 20 20 20 20 20 20 20 20 20 20 20 2	80.00
18	15	75.00	22	20	80.00	27	20	80.00
18 18 18 18	15 16	75.00	22	30	90.00	27	20	80.00
18	30	90.00	22	20	80.00	27	20	80.00
18	20	60.00	22	20	80.00	27	30	98.00
18	30 20 20 20 12 12	60.00	22	12	66.00	27	20	80. 00 80. 00 80. 00 80. 00 98. 00
18 18	20	60.00	22	11	61.00 66.00	27	20	80.00
18	12	66.00	22	12	1 203 00	27	20	80.00
18	30 15	90,00	22	205 15	60.00	27	11	62.00
18	15	75.00	23	12	66.00	27	11 20	80.00
18	15 20 30 16	75. 00 60, 00 90. 00 80. 00	20	12	1,203.00 60.00 66.00 66.00	27	20	80. 00 80. 00 98. 00 62. 00 80. 00
18	30	60,00	23	18 12	99.00 65.00	27	236 306	1,726.00
18	16	80.00	23	20	60.00	28	10	1, 188. UU 50:00
18	16	80.00	23	20 20 30 30 20	60. 00 80. 00 90. 00	28	10 20 20	65.00
20	24	96.00 90.00	23	30	90.00	28	20	65.00
20	30	90.00 90.00	23	30	us nn i	28	14	80. 00 1, 726. 00 1, 788. 00 50. 00 65. 00 70. 00
20	24 30 30 30 30 30	90.00	23	10	65. 00 40. 00 1, 171. 00 66. 00	28	14 18	70. 00 90. 00
20	30	90.00 90.00	23	187 12	1, 171.00	28 28	18	90.00
20	1 20	90.00	24	12	66.00	28	10	60.00

Pulp woods imported from Canada into the district of Champlain, port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
1908.	Cords.	****	1908.	Cords.		1908. Feb. 18	Cords.	694.00
Jan. 28	18 18	\$90.00 90.00	Feb. 12	159 10	<b>\$953.00</b>	18	20	<b>\$84.00</b> <b>80.00</b>
Jan. 28 28 28	197	90.00 1,121.00 1,993.00 50.00 80.00	1 12	18	50.00 90.00	18	20 20 20 20 20 20 20 20 20 20 20 20 20 2	80.00
29	281	1,993.00	12	10 20 20 20 20	40.00	18	20	160.00
29 29	10 20	50.00	12 12	20	80.00	18 18	20	160.00 160.00
29	15	60.00	12	20	80.00	18	<b>2</b> 0	240.0)
29	- 11	60.00 42.00	13		80. 00 80. 00 65. 00 56. 00	18	20	80.00
29 29	16 14	80.00 70.00	13 13	14 12	56.00	18 18	490	80.00 <b>2.</b> 655.00
29	10	55.00	13	13	60.00 72.00	19	10	40.07
29	10 20 9	55. 00 80. 00 50. 00 61. 00 66. 00 50. 00	13	122	72.00 766.00	19	20	40.07 80.00 84.00
29 29	11	50.00	14	20 10	80.00 40.00	19 19	21	84.00
29	12	66.00	12	30	80.00	19	20	80.00
29	12 12	66.00	14	30	98.00 . 80.00 80.00	19	14	70.00
29	9	50.00	14	20	. 80.00	19 19	20	80.00
29 29	12 12	86.00	14	20	80.00 40.00	19	20	80. 00 80. 00 70. 00 80. 00 84. 00
30	10	66. 00 66. 00 55. 00 77. 00	15	20 30 20 20 10 20	80.00	19	12	80.00
30	11	77.00	15	12	66.00	19	20	80.00
80	10	80.00 99.00	15	10 20	40.00 80.00	19 19	20	83.00
80	20	90.00	15	480	3, 116.00	19	ĩi l	60. 00 80. 00 33. 00 60. 00 61. 00
30	10 18 20 10 20 20 20 20 18 18	90.00 40.00	17	30	98.00	19 19	9	50. 00 63. 00 50. 00 66. 00 68. 00
30	20	80.00 90.00 80.00 80.00 90.00	17	18 21 20 20	90.00	19 19	12	63.00
30	20	80.00	17	21	84.00	19	12	86.00
30	20	80.00	17	20	80.00 65.00 90.00	19	12	66.00
81	18	90.00	17	18	90.00	19	12 20 12 12 12 12 12	80.00
31 31	18	90.00	17	18 18	90.00 90.00	19 19	12	
31	18	90.00	17	18	90.00	19	12	65.00 66.00 60.00 72.00
31	18	90.00	17	18	90.00 90.00	19	12	60.00
31	10 18 18 18 18 18 18 18 18 19 20	50.00 90.00 90.00 90.00 90.00 90.00	17	18	90.00	19 19	12	72.00 60.00
31 31	18	90.00	17	18 18	90.00 90.00	19	12 10 12 12	50.00
31	18	90, 00 90, 00 90, 00 90, 00 80, 00	17	10	50,00	19	12	50. 00 60. 00 66. 00 66. 00
81	18	90.00	17	18	90. 00 90. 00	19 19	12 12	66.00
31	18	90.00	17	18 18	90.00	19	5	50.00
31	10	80.00	17	18	90.00	19	12	00.00
31	30	98.00 65.00	17	10	52.00	19 19		50. 00 80. 00
81 31	10	50.00	1/2	12 18	66.00	19	20 20 20 20	80.00
31	18	50.00 90.00 90.00	17	10	90.00 80.00	19	20	80.00
81	18	90.00	17	20 12	80.00 1	19	20	80.00
31 81	16	20.00	17	12 10	66.00 52.00	*19 20	230	808.00
81	14 14	70.00	17	11	61.00	20 20	230 94 12 10 10	66,00
Feb. 1	10	86.00	17	11 12	66, 00	20	10	40.00
1	10 10	80.00 70.00 70.00 86.00 80.00 50.00	17	12 12	66. 00 66. 00 66. 00	20 20	10	80.00 80.00 80.00 80.00 1,205.00 60.00 60.00 40.00
1	11	59.00	17	18	90.00	20	10 10	
<u>1</u>	10	40.00:	17	18 18 20 20	90.00 90.00 80.00	21	12 10 10	66.00
3 3	10 14 20 20 18 18 18	86.00 80.00 80.00	17	18	90.00	21 21	10	40.00
3	20	80.00	17	20	80.00	21	11	61. 00
3 3	18	90.00	17	94	96.00	21	12	66.00
3	18		17	20	80.00	21 21	10 12	55.00
3 3	126	90.00 782.00	17	20 20 20	80.00	21	12	60.00
5	12	60.00 80.00	i7	10	50.00	21	12 12	60,00
5	16	80.00	17	517	80.00 80.00 50.00 8,354.00	21	12	60.00 66.00 65.00 65.00 65.00 66.00 60.00 66.00 66.00 66.00 66.00
5 10	14	70.00 40.00	18	10	50.00 90.00	21 21	12	65.00 90.00
10	10	50.00	18	20 10	50.00	21	12	66.00
10	20	80.00 80.00 70.00 80.00	18	18	90.00	21	12	60.00
10	14	70.00	18	20	80.00 80.00	21 21	12	66. 00 66. 00
10 10	10 10 20 14 10 18 18	90.00	18	20	80.00	21	12 18 12 12 12 12 12 12 12	00. UU
10	18	90.00 90.00	18	21	84.00	21	12	66. 00 66. 00 72. 00
10	18	00.00	18	18 20 20 20 21 20 20 20	65.00	21	13	72.00
10	18 36	90.00 199.00	18 18	20 20	80.00 80.00	21 21	13 222	70. 00 <b>1, 8</b> 01. <b>00</b>
******	- 40	199.00 1		. <i>a</i>	80.001	44	-	e en 1. 00

Pulp woods imported from Canada into the district of Champlain, port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

			,					
Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
1906.	Cords.		1908.	Corde.		1908.	Cords.	
Feb. 22 22 22		\$80.00	Feb. 28	20 12	\$80.00	Mar. 5	12	\$66.00
22	15 12 20 20 20 21 20 13 22 20 22 20	66. 00 80. 00	28 28	12	72.00 66.00	5 5	12 12	66.00
22	20	80.00	28	9	50.00 66.00	5	12	66. 00 72. 00
22 22	20	80.00 84.00 80.00 82.00 88.00 80.00 80.00 80.00 80.00	28 28	12	66.00	5	12	66. 00 50. 00
22	20	80.00	28	12 12	66.00 66.00	5	12 12	An no
22	13	82.00	1 29	10	66.00 50.00 100.00 65.00 65.00 1,481.00 1,330.00	5	9	50.00 55.00 1,195.00 80.00
22 22	22	88.00	28	20	100.00	5	10	55.00
22	22	88.00	28 28	20 20	66.00	6	170 20 20 21 10	1,195.00 80.00
22 22	9	80.00	28	248	1,481.00	6	20	80.00
22	12	66.00	28 29	218 10	1,830.00	<b>0</b>	21	84. 00 80. 00
22	12	66.00	29	20 10		6	12	60.00
22 22	80	98.00	29	10	70.00	6	12	60, 00 66, 00
22	20	80.00	29 29	10 13	70.00	ļ	30 14 14	98. 00 70. 00
22	20	80.00	29	13	75.00	6	14	70.00
24	30	66.00 98.00 98.00 80.00 80.00	29 29	11	62.00	6	325	2,034.00
24 24	12 12 12 12 12 12 12 12 12 12 12 12 12 1	98.00	29	11 10 20 20 21 20 20 12	70. 00 70. 00 73. 00 75. 00 62. 00 55. 00 100. 00 80. 00 84. 00 80. 00 84. 00 86. 00	7	10 15	70.00 70.00 2,034.00 55.00 98.00 98.00
24	18	65. 00 91. 00	Mar. 2	20	80.00	7	30 10	98.00
24 24	13	91.00	2	21	84.00	7	10	CLL (R)
24	10	80.00	2	20	80.00	9	166 30	1,024.00 98.00
24	20	80.00	2	12	84.00	9	10	80. 00 50. 00
24 24	20	160.00 80.00 80.00 160.00 80.00	2	12	60.00	9	10 10	40.00
24	20	1 BU. UU 1	2	10	50. 00 50. 00 50. 00	9	18	90.00
24 24	21	84. 00 80. 00	2	10 12	50.00	9	10	50.00
24 24	20	80.00 80.00	2	12	60.00	9	20	80.00
24	20	80. 00 80. 00	2	21	84.00	10	20	4, 132, 00 80, 00 4, 132, 00 80, 00 80, 00 84, 00
24	20	80.00	2	20	100.00	10	20	80.00
24	20	80. 00 80. 00	2	22 21 20 20 21 11	60.00 88.00 80.00 80.00 61.00 61.00 61.00 61.00 61.00 61.00 61.00 61.00 61.00	10 10	20 681 20 20 21 20 11 21 20 10	84. 00 80. 00
24	10	50.00 50.00 1,229.00	2	11	61.00	10	ĩi l	74.00 84.00
24 24	10	50.00	2	12	66.00	10 10	21	84.00
25	20	80.00	2	11 843	5.270.00	10	20	80. 00 40. 00
25 25	12	60. 00 80. 00	3	843 10 11	60.00	10	10	<i>5</i> 5. 00
25	20	80.00	3	11	61.00	10 10	12 12	66. 00 66. 00
25	12	50.00 66.00	3	10	85.00	10	12	66, 00
25 25	12	66.00	3	10	85.00	10 10	12	88 00
25	12	66.00	3	. 10 12	65.00	10	12 12 20 379	66. 00 80. 00 2, 544. 00 4. 399. 00
25	12	66.00	3	9	50.00 99.00	10 11	379	2,544.00
25 25	12	66.00	3	18	99.00	11	504	4,399.00
25	12	66.00	3	10 12	50. 00 60. 00	11	10	50.00 50.00
25	228 20 12 20 10 12 12 12 12 12 12 12 20 20	66. 00 66. 00 66. 00 66. 00 66. 00 66. 00 40. 00 80. 00 81. 00	3	10	60.00 2,086.00 517.00	<u> </u>	504 10 10 10 12	50.00
25 25	20	80.00	3	316 88	2,086.00	11	12 12	50.00 66.00 66.00
25	10	50.00 6,928.(1) 80.00 80.00 50.00	4	20	80.00	ii		66.00
25 26	1, 184	6,928.(2)	4	20 12 12	66.00	11	12 12 12	66, 00 66, 00
26	20 20 10	80.00 80.00	4	12 12	66.00	11	12 12	66.00
26 26 26	10	80.00	4	10	30.00	îi	12	66, 00 66, 00
26	10	50.00	4	20	65.00	11	12	66, 00
26	ii	55.00	<b>1</b>	20	88.00	11	12 12	66. 00 66. 00
26	10 10 11 12 20 13 22 13 20 130 20 20 20 20 20	50. 00 50. 00 55. 00 72. 00	4	20 20 22 20 20 21 12 12	80.00 66.00 66.00 66.00 30.00 65.00 80.00 88.00 80.00 84.00 66.00 66.00	ii	9 1	50.00
26 26	20	72.00 80.00 73.00 124.00 73.00 80.00 880.00	<b>1</b>	20	160.00	11	20 10	80.00 40.00
26	22	124.00	i i	12	66.00	ii	11	66.00
27 27	13	73.00	4	12	66.00	11	8 1	66, 00 40, 00 98, 00 80, 00
27	130	880.00	5	21 20 20 12	84. 00 80. 00	11	30 10 10	96.00
28	20	160.00	5	20	80.00	ii	10	80.00
28 28	20	160. 00 80. 00 100. 00	5	12 12	66.00 66.00	12	20 21	80.00 84.00
28	20	80.00	5	18	99.00	12	21 20	80.00
28	20	80.00	5	12	66.00	12	21	84.00
<b>25</b>	20	80.00	5	12	66.00	12	20	80.00

Pulp woods imported from Canada into the district of Champlain, port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

			( Dispersion		. 4007.1			
Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
1908.	Cords.		1908.	Cords.		1908.	Cords.	
Mar. 12	10	\$40.00	Mar. 16	10	\$55.00	Mar. 20	20	\$160.00
12	20	80.00	16	20	80.00	20	10	65. 00 66. 00
12 12	20	80. 00 84. 00	16 16	14 10	101.00 80.00	20 20	12 12	86.00
12	21 21	84.00	16 16 16 16	20	80.00	201	12	66. 00 66. 00
12	221	84. 00 1,307. 00	16	20	80.00	20 20 20	9	50.00
13	12	66.00	16	20	80.00	20	18	99.00
13 13	12 12	66. 00 66. 00	16	20 21	80.00 84.00	20	12	50. 00 99. 00 66. 00 66. 00
13	12	66.00	16	21	84.00	20	12	66.00
13	12 12	66.00	16 16 16	20	80.00	20 20	12	66.00
13	12	66.00	16	20	80.00	20 20	12	66. 00 66. 00
13	9 12	50, 00 60, 00	16	30 21	240. 00 84. 00	20	12	66.00
13	12	72.00	16	10	80.00	20	12	66. 00 66. 00
13 13 13	iī	55.00	16 16	20	80, 00	20 20	12	66.00
13	12	72.00	16 16	21	84. 00 84. 00	20	12	66.00
13	10	40.00			84.00	20 20 20	12	66. 00 66. 00 66. 00 66. 00 66. 00
13 13	10 12	40.00 66.00	16	20	80. 00 50. 00	20	12 12	96.00 86.00
13	12	66.00	16	30	165.00	20 20	12	66.00
13 13 13	10	40.00	16	21	84.00	20 20	12	66. 00 66. 00
13	10	50.00	16 16 16 16 17 17 17 17	27	98.00	20	12	66. 00 66. 00
13	10 10	50.00 50.00	16	561 18	3, 261. 00 99. 00	20	12 12	88 M
13 13	10	50.00	17	12	66.00	20 20 20	12	66. 00 50. 00 65. 00 50. 00
13	12 18	66.00	17	12	66.00	20	10	50.00
13	18	99.00	17	12	66.00	. 🤈 🤈	18	65.00
13	12	66.00 66.00	17	12	66.00	20 20	10	50.00 72.00
13 13	12 12	66.00	17	10	60. 00 60. 00	20	12 12	60.00
13	12	66.00	17	12	66.00	20	10	50.00
13	10	70.00	17 17 17 17 17 17 17 17 17	12	60.00	20	10	60. 00 50. 00 50. 00 50. 00
13	10	60.00	17	12	72.00	20	10	50.00
13	20 10	80. 00 80. 00	17	12	72.00 72.00	20 21	256 50	1, 443. 00 370. 00
13	10	80.00	17	12 12	60.00		12	66,00
12	10	80. 00 66. 00	17	12 12	66, 00	21 21 21 21	10	50.00 50.00
13 13 14	22	66.00	17		66.00	21	10	50.00
13	403	2, 462. 00 40. 00	17	12 12	66. 00 66. 00	21	20	80.00 66.00
14	10 20	80.00	17	12	50.00	21	20	80.00
14	12	66.00	17	110	700.00	21 21 21 21	22 20 20 20	80.00 80.00
14 14	20 10	80.00	17 17	114	633, 00	21	20	20 00
14	10	80.00	17	20 10	70.00 40.00	21	20	80. 00 80. 00 80. 00 55. 00
14	10 10	80. 00 80. 00	17 17		80.00	21	90	80.00
14	10	80.00	17	20	65.00	21	iõ.	55.00
14	20	65.00	17	20	65.00		20	65.00
14	20 20 12	65.00	17	30	98.00	23	10	85.00 66.00
14	12 12	66.00 66.00	17 17 17 19 19 19 19 19 19	286 20	1,773.00 80.00	23 23 23 23 23	12 12	66.00
14	12	66.00	19	21	84.00	23	12	66, 00 66, 00
14	12	72.00	19	21 20	80.00	23	10 1	40.00
14	10	60.00	19	21	84.00	23	20 30 20 30	80. 00 98. 00 65. 00 98. 00
14	12 12	60.00 66.00	19	10 21	40.00 84.00	23	30	96.U0
14	iố	50.00	19 19	21	84.00	23 23	30	98,00
14	10	50. 00 50. 00	19	21	84.00	23	30 30	98.00
14	10	50.00	19	12	<b>6</b> 6.00	23	30	98,00
14	10 10	50.00 50.00	19	12	66. 00 66. 00	723	10 20	70.00
14	252	1,662.00	19	18	99.00	23 23	20	80.00 50.00
16	21	84.00	19	12	66.00	23	12	66.00
16	20	80.00	19 19 19 19		50.00	23	20	80.00 60.00 80.00 66.00
16	10	50.00	19	12	66.00	23	20	60.00
16 16	10 10	50, 00 50, 00	19	12 12	66. 00 66. 00		20 20 20 22	84.00
10	12	60.00	19 19 20	12	66.00	23	10	80.00
16	19	60.00	20	21 22	84.00	23 23	10 10	80,00
16	12	66.00	1 20	22	88.00	23	10	80.00
16 16	9 12	72.00	20 20	21	84.00 80.00	23	20	160.00 80.00
16	12	66 00	20	20 20	80.00	23 23 23	20 20 20 528	80.00
16	10	56.00 59.00	20	21	84.00	23	528	80.00 8,164.00 80.00
16	11	59.00	20	20	80.00	24	10	80.00

Pulp woods imported from Canada into the district of Champlain, part of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
1906.	Cords.		1908.	Cords.		1908.	Cords.	
Mar. 24	20 20 21 21 20 20 22 12 12 12 12 12 12	\$160.00	Mar. 27	20	\$80.00	Mar. 30	10	\$50.00
24 24	30	240.00 80.00 84.00 84.00 80.00 80.00 80.00 80.00 66.00 66.00 66.00	27	18 12	80.00 66.00 66.00	30	10	50.00
24 24	20	84.00	27	12	66.00	30	10 21 10 21 20 21 10 21 10 20 20 20 30	50.00
24	21	84.00	27	12	66.00	30	10	84.00
24	20	80.00	27	12	66. 00 66. 00	30	21	40. 00 84. 00 80. 00 84. 00
24	21	84.00	27	12	66.00	30	20	80.00
24	20	80.00	27	12	66. 00 70. 00	30	21	84.00
24	20	80.00	27	10	70.00	30	10	
24	12	48.00	27	12 12	66.00	30 30	21	84. 00 80. 00 84. 00 65. 00
24 24	12	06.00	27 27	12	66. 00 66. 00	30	20	80.00
24	12	86.00	27	12	66.00	30	21	84.00
24	12	66.00	27	12	66. 00 66. 00	30	10	
24	12	66.00	27	12	66.00	30	20	80. 00 98. 00 80. 00 80. 00
24	12	66.00 66.00	27	12	66.00	30	30	98.00
24	12	66.00	27	12	66.00	30	10	80.00
24	12	66.00	27	12	66.00	30	10	80.00
24	10	55.00	27	12	66. 00 66. 00	30	10	80.00
24	12	72.00	27 27	12 12	66.00	30	10	
24	12	66.00	27	18	66. 00 99. 00	30 30	10 10	65.00
24	12 10 12 12 12 13 12 12 20 20 20 20 20 20 20 20 20 20 20 20 20	55. 00 72. 00 60. 00 66. 00 99. 00 66. 00 66. 00 98. 00 65. 00	27	19	I 50.00 i	30	20	65. 00 70. 00 80. 00 80. 00
24	12	66.00	27	436	2,550.00 1,730.00 40.00	30	20 20 20 20 20 10	80.00
24	12	66.00	28	484	1.730.00	30	20	260. OO
24	12	66.00	28	10 20 20	40.00	30	20	80. 00 40. 00
25	30	98.00	28	20	80.00	30	10	40.00
25 25	20	65.00	28	20	80.00	30	10	40.00
25	20	65.00	28 28	20 20	80.00	30	20 361	80.00
25	30	90.00	28	10	80.00	30	164	2,351.00
25	20	80.00	28	10	40. 00 80. 00	31	10	938.00
25	12	72.00	28	10	80.00	31	22	44. 00 66. 00
25	22	88.00	28	20 13	80. 00 88. 00	31	22	66.00
25	20	80.00	28	13	78.00	31	10	80.00
25	10	65. 00 50. 00 80. 00 72. 00 88. 00 89. 00 55. 00	28	12	78. 00 78. 00 66. 00 66. 00 66. 00	31	10 10	80.00
25 25	10	55.00 1,427.00 1,756.00 977.00	28 28	12	66.00	31	10	80. 00 40. 00 40. 00 60. 00
25	233 315	1,427.00	28	12 12	66.00	31 31	10	40.00
26	166	1,730.00	28	10		31	10 10	90.00
26	20	80.00	23	10	55. 00 50. 00 66. 00 66. 00	31	20	
26	10	80. 00 40. 00 84. 00 80. 00 80. 00 80. 00 80. 00 80. 00 66. 00 66. 00	28	9	50,00	31 31 31 31	12	66. 00 66. 00 50. 00 66. 00
26	10	40.00	28	12	66.00	31	12	66.00
26	21	84.00	28	12	66.00	31	9	50.00
26	21	84.00	28	12	66.00	31	12	66.00
26 26	20	80.00	28 28	12	66. 00 66. 00	31 31 31 31	12 12 0	
26	20	80.00	28	12 12	66.00	31	12	60.00
26	20	80.00	28	10	55.00	31	12	66. 00 50. 00 60. 00
26	21	84.00	28	iŏ	55. 00 50. 00	31	10	60.00
26	12	66, 00	28	iŏ	50.00	31	12 10 12	60.00
26	12	66.00	28	10	50. 00 60. 00	31 31	12	72.00
26	12	66.00	30	12	60.00	31	10	50.00
26	12	66. 00 66. 00	30	10	40. 00 66. 00	31	10	50.00
28 26	12	66.00	30	22 20 20	66.00	31	10	55.00
26	12	66.00 66.00 66.00	30	20	60.00	Apr. 1	15	75.00
26	12	66.00	30	10	65. 00 60. 00	ļ <u>†</u>	20 10	85.00
26	12	66.00	30	12	66.00	l ;	io	70.00
26	18	99.00	30	12 11	l· 61.00 l	i	10	70.00
26	12	72.00	30	12	66, 00	l i	10	60.00
26	12	60.00	30	12	66.00	1	20	98.00
26	12	72.00	30	20	80.00	1	10	88.00
26 26	10	66. 00 99. 00 72. 00 60. 00 72. 00 72. 00 72. 00 66. 00 66. 00	30	12 20 20 20	80. 00 80. 00 80. 00 55. 00	1	20 10 20 20 20 10 20 18 20	80.00 72.00 50.00 55.00 75.00 80.00 70.00 70.00 98.00 55.00 56.00
26	12	72.00	30 30	20 10	80.00	1	20	65.00
26	12	66.00	30	12	66.00	1	10	85.00
26	12	66.00	30	12	66.00	1	70	65 W
26	10	40.00	30	12	66.00	1 1	18	95.00
26	10	40.00	30	1 12	66.00	i	20	88.00
26	20 20 20 20 20 20 20 20 20 20 20 20 20 2	40.00 40.00 80.00	30	12 12	66.00	1	10	60. 00
27	11	1 77.00	30	12	66.00	1	12	60.00
27	20 10	90.00 70.00	30	12 12	66.00	1	10	60.00
27 27	10 10	70.00 70.00	80	12	66.00		12 10 12 12	65. 00 88. 00 95. 00 88. 00 60. 00 60. 00 60. 00 66. 00
27	22	98.00		18 12	99.00	1 1	12	00, 170
<i>51</i>	. 44	BO-100 ,	¹ 80	• 13	60.00	·	14	6ü. Uu

Pulp woods imported from Canada into the district of Champlain, port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

			(Emeere	34 11 <del>00</del> 0	. auty.j			
Date of arrival.	Quan- tity.	· Value,	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
1908.	Cords.		1908.	Cords.		1908.	Cords.	
Apr. 1	12 12	\$66.00	Apr. 3	12	\$72.00	Apr. 6	24	896.00
1	12	66.00	3	10	60.00	6	24	96, 00 96, 00
1	12 18 12 10 10 10 10 10 10 20 13 20 10 20 20	66. 00 66. 00 99. 00 66. 00	3 3 3 3	18 12	65. 00 66. 00 50. 00 66. 00 66. 00	6	24 24 21 20 20 20 20 20 20 20 20 20 20 20 20 20	96.00
1	18	99.00	8	10	50.00	. 6	10	96, 00 83, 00
1	12	66.00	3	12	66.00	6	20	80. 00 88. 00
1	10	80.00 80.00 80.00 80.00 80.00 70.00 80.00 80.00 80.00 90.00 80.00 90.00 90.00 4,178.00 1,648.00 90.00 44.00	8	12 12		8	20	88.00
i	10	80.00	3	17 178	85.00	6	15	90.00 68.00 90.00 90.00 72.00 90.00
1	10	80.00	3	178	1,104.00	6	20	90.00
1	10	80.00	<b>1</b>	130 17	806.00	2	20	90.00
i	13	70.00	4	10	65.00	6	20	90.00
1	20	80.00	4	10 12	78.00	6	20	90.00
1	20	80.00	4	20 20	80.00	g	20	90.00 90.00
1	20	80.00	4	8	86.00	6	20	90.00
1	20	90.00	4	20	90.00	6	20	90. 00 110. 00
1	10	50.00	4	20	90.00	6	20	110.00
1	10	80.00	2	20 20 20 10	90. 00 90. 00 70. 00	D	18	136. 00 80. 00
i	10	70.00	4	20 20	90.00	6	10	80.00
1	10 10 20 20 20 736 260	45.00	4	20	90. 00 90. 00 60. 00	6	10	80. 00 40. 00
ļ	20	90.00	<b>1</b>	12 10	60.00	6	10	40.00
1	20	90.00	4	10	55. 00 80. 00 80. 00 90. 00	6	20	80. 00 80. 00
1	736	4, 178.00	4	10 20	80.00	6	20	
2	260	1,648.00		20	90.00	6	10 10 10 10 20 20 20 12 563	50. 00 8, 312. 00 1, 477. 00 50. 00 80. 00
2	10	44.00	<b>3</b>	20 20 20 30 10	65. 00 90. 00	9	231	8, 812. 00 1 477 00
2	10	80.00	4	20	90.00	7	9	50.00
2	10	80.00	4	30	90.00 98.00 80.00	7	- 10	80.00
2	10	50.00	<b>1</b>	10	80.00	7	10 10	80. 00 80. 00
2	20 10 10 10 10 10 18 9 12 12 12 12 12 12 10	80. 00 65. 00 50. 00 99. 00 80. 00	4	10	80.00 80.00 80.00 80.00 80.00 80.00	7	10	80.00
2	9	<i>5</i> 0.00	4	10	80.00	7	10	80. 00 80. 00
2	12	66.00	4	10 10	80.00	7	10 10 22 20 20 10 20 20 10 20 11 10 10	70. 00 66. 00 90. 00
2	12	66.00	4	10	80.00	7	20	90.00
2	12	66.00	4	10	80.00	7	20	90. 00 90. 00
2	12	66.00	<b>4</b>	10	80. 00 80. 00 80. 00 80. 00 84. 00 80. 00 84. 00 98. 00 72. 00	7	20	90.00
2	12	60.00	4	10 20 20 21 20 21 20 21 20	80.00	7	20	46. 00 90. 00
2	10	60.00	4	20	80.00	7	20	90.00
2	10	55.00	<b>4</b>	21	84.00	7	10	45. 00 90. 00
2	10	50.00	4	20	84.00	<b>5</b>	20	90.00
2	10	80.00	4	20	98.00	7	14	90. 00 84. 00 45. 00
2	20	90.00	4	12	72.00	7	10	45.00
3	18	90.00	2	10 10	50.00 50.00	7	10 10	50. 00 50. 00
3	10	86.00 66.00 66.00 72.00 60.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00	6	20	65. 00 78. 00	7	12	66. 00
§	20	80.00	6	20 24 30 20 10	78.00	6. 6. 6. 6. 6. 6. 6. 6. 6. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.	12 12	66. 00 66. 00 66. 00
· 3	12 20	60. 00 80. 00	D	30	98.00 65.00	7	12	96. 00 86. 00
3	20	I 60 00 I	6	10	98. 00 65. 00 70. 00 36. 00 135. 00	7	12 12	66.00
3	20	80. 00 84. 00 80. 00 80. 00	6	10 12	70.00	7	12 15 10 12 12	66.00
<b></b>	21	84.00	6.,	12 18	36.00	7	15	73.00
3	20	80.00	6	10	80.00	7	10	72,00
3	12	66. 00 66. 00	6	10	1 10.00	7	12	72.00
3	12	66. 00 66. 00	6	10 20	80. 00 80. 00	7	. 12	66. 00
3 3 8 3	18	99.00	6	12	78.00	7	12	86.00
8	10 10 10 18 10 18 10 20 20 20 20 20 12 20 12 12 12 11 11 10	99. 00 99. 00	4	14	78.00 70.00	7	. 12 12 12 0	66. 00 66. 00 73. 00 60. 00 72. 00 72. 00 66. 00 66. 00 66. 00
3	12	66.00	6	10	40.00	7	12 20 20 12	86 00
ð	12	66, 00 61, 00	6	18 9	99.00 50.00	<b>]</b>	20	80.00 120.00 78.00 40.00
3	12	66. 00 61. 00	6	12	66.00 66.00	7	12	78.00
3	11	61.00	6	12	66.00	7	10	40.00
3	10	50.00 50.00	g	12 12	66.00 66.00	7	20	80. 00 80. 00
8	10	50.00	6	12	66.00	8	20	90.00
3	10	50.00		12	66.00	8	20 20 20 10 12	70.00
8	10 10	50.00 50.00	6	18 12	99.00 66.00	8	12	66. 00 80. 00
ō	10	Mr. 00 1	0	13	00.00	· 5	10	au. v0

Pulp woods imported from Canada into the district of Champlain, port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
1908.	Cords.	#140 00	1908.	Cords.	999 00	1908.	Corda.	3
Apr. 8	20 10 10 10 10 10 10	\$160.00 80.00 80.00 80.00 80.00 80.00 80.00 90.00 90.00 70.00 70.00 65.00 65.00 66.00	Apr. 10	12 12	\$66. 00 66. 00 66. 00 66. 00	Apr. 13	12 12	\$66. 00 99. 00 66. 00 66. 00 66. 00
8	10	80.00	10 10	10	80.00	13	18	99.00
8	10	80.00	10 10 10 10 10	10 12 12	66.00	1 12	12	66.00
8	10	80, 00	10	12	66.00	13 13 13 13	12 12 12 12 12	66.00
8	10	80.00	10	12	66.00	13	12	66, 00
8	10	80.00	10	12	66.00	13	12	66.00
8	10	80.00	10	12	66.00	13	12	66.00
g	20	90.00	10	20	90.00	13	12 18	00.00
8	10	70.00	10	20	80.00	18	18	99.00
8	10	45.00	10	21	84.00	13 18	18 433	2,552.00
8	20 20 10 10 10 20 10 10 10	70.00	10 10 10 10 10 10 11 11 11 11 11	12 12 12 20 21 20 21 20 21 20 21 20 20 20 20 20 20 20 20 20 20 20 20 20	66.00 66.00 66.00 80.00 80.00 80.00 80.00 80.00 81.00 81.00 797.00	14	70	60, 00 60, 00 99, 00 99, 00 2, 532, 00 55, 00 55, 00 55, 00 84, 00 80, 00
8	20	65.00	10	20	80.00	14	.0	50.00
8	10	65.00	10	21	84.00	14 14 14	10	85.00
Ş	10	60.00	10	20	1 204 00	15	10	88.00
8	15	75.00	10	124	797 00	12	10 10	55.00
8	12	86.00	ii	20	90.00	1 14 1	30	98.00
8	12	66.00	ii	20	90.00	14	21	84.00
8	12	66.00	11	20	90. 00 90. 00 90. 00	14	20	80.00
8	12 12 12 12	55.00 75.00 66.00 66.00 66.00	11	20	90.00 90.00 90.00	14 14 14	12	60.00
8	12	66.00	11	20	90.00	14	10	55.00
8	12	66.00	!!	20	90.00	14	21	84.00
g	12 9	66.00 66.00 66.00 50.00 1,248.00 1,252.00	11	12	86. 00 66. 00 66. 00 50. 00 50. 00 50. 00 50. 00 50. 00 60. 00 60. 00 60. 00 80. 00 80. 00 80. 00 80. 00	14	30 21 20 12 10 21 20 10 20 10	80.00
8	201	1.248.00	11 11 11	12	66.00	14 14 14	20	80.00
9	195	1,252,00	ii	12	66.00	14	ĩõ	40.00
9	9		11	12 12 10	50.00	14	12	60. 00 60. 00 50. 00 99. 00 66. 00 66. 00 66. 00 66. 00 66. 00
9	12	66, 00		10	50.00	16	9 18	50.00
9	12	66.00	11	10	50.00	14	18	99.00
9	12	66.00	11 11 11 11	10 10 10	50.00	14 14 14	12	66.00
ğ	12 12	66. 00 66. 00 66. 00 66. 00	11	10	80.00	14	12 12	86.00
9	12	66.00	11	10	80.00		12	66.00
9	12 12	66.00	ii	10	50.00	14	12	66.00
9	12	66.00	ii	10	60. CO	14 14 14 14	12	66.00
9	12 12 12 12 12 12 12 18 18	66.00	11	20	90.00	14	12	66, 00 66, 00 66, 00 90, 00 45, 00
9	12	66.00	11	10	65.00	14	12	66, 00
y	12	66.00	11	20	80.00		12	66,00
9	12	66,00	13 13	20	80.00	14	20	90.00
9	18	90.00	13	10	40.00	1 12	20	90.00
9	18	99.00	13	iŏ	70.00	14 14 14 14	20 10 20 20 10 10	90.00
9	10	45.00	13	20	80.00	14	10	45.00
9	20	90.00	13	10	<b>5</b> 5. 00	14	10	70.00
9	20 10 20 10 20 12	66.00 66.00 66.00 66.00 66.00 99.00 46.00 90.00 90.00 90.00 90.00 90.00	13 13 13	10 20 10 20 21 10 10 12 12 12 12	55. 00 66. 00 66. 00 60. 00 72. 00 60. 00 60. 00 66. 00 66. 00 66. 00 66. 00	14	10	90. 00 90. 00 45. 00 70. 00 70. 00
y	20	90.00	13	12	66.00	14	10	80.00
ā · · · · ·	20	90.00	13	12	72.00	19	10 10	80.00 PO 00
9	12	86.00	13	10	60.00	14	20	80. 00 80. 00 80. 00 90. 00 90. 00
9	20	90.00		io	60.00	14	20 20 268 20 20 20 20 30 10 10	90.00
9	10	45.00	13 13	12	66.00	14 14 15	20	80.00 1,801.00 80.00 80.00 65.00
9	20	90.00	13	12 12 12 12 12	66.00	15	268	1,801.00
9	20	90.00	13	12	66.00	15	20	80.00
<b>y</b>	20	90.00		12	66.00	18 18 16 15 15 15 15 16 16	20	80.00
ğ	10	110.00	13 13 13	13	66.00	15	20	98.00
9	10	45 OO	13	12	00.00	18	10	33.00
9	18	65. 00 99. 00	13	12 18 10 10	55.00	15	10	80.00
9	10	45.00	13	īŏ	<b>65. 00</b>	15	iŏl	80.00
9	20	45. 00 90. 00 90. 00	13 13 13 13 13	10	66. 00 99. 00 85. 00 85. 00 85. 00 90. 00 90. 00 90. 00	15	10	80.00
9	20	90.00	13	10	55.00	15	10	80.00
9	20	80. 00 40. 00	13	20	90.00	15	18	99.00
y	10	40.00	13	20	90.00	15	18	99.00
š	20	90.00	13	20	40.00	15	20	90.00
9	20	90. 00 80. 00	13	50	80.00	15 15 16 18	20	23. 00 80. 00 80. 00 80. 00 99. 00 90. 00 90. 00 90. 00 72. 00 72. 00 90. 00
10	20	80.00	13	20	80.00	15	10	45.00
10	10	70.00	13 13 13	20	80.00	15	12	72.00
10	20	90.00	13	20	80. 00 80. 00 90. 00	15	12	72.00
10	30	240.00	13	10	80.00	15	20	90.00
10	21	84.00	13	10	80.00	15	20	90.00
10	200 100 200 100 200 100 200 100 200 100 200 100 200 100 200 112 12 12 9	84. 00 66. 00 99. 00	13 13	20 20 20 20 20 20 20 20 20 10 10 10 10 30	240.00 99.00 80.00	10	18 18 20 20 20 10 12 12 20 20 20	90.00 90.00

Pulp woods imported from Canada into the district of Champlain, port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

	[Minded Heavi duty.]									
Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.		
1908.	Cords.		1908.	Cords.		1908.	Cords.			
Apr. 15	20	<b>\$90.00</b>	Apr. 20	10	\$55.00	Apr. 24	10	\$40.00		
15	10	45.00	20	30	165.00	24	10	\$5.00		
15 15	10 20 10	90.00 45.00	20 20	10 10	50.00 51.00	24 24	10	50.00		
15	20	90.00		12	60.00	l 24	12	50.00 66.00		
15	20 18	99.00	20 20	12	I 66.00 I		10	40.00		
15 16	9 20	50.00	20	12	66.00	24	10	52.00		
16	10	110.00 60.00	20 20	12 10	66.00 85.00	24 24 24 25 25	20 20 21	80.00 80.00		
16	10	70.00		10	80.00	24	21	84.00 196.00		
16	12	66.00	20 20	20 21	80.00	25	39	198.00		
16 16	12	66.00 72.00	20	30	84.00 98.00	25	120	80. 00 60. 00		
18	12 12	66.00	1 20	10	60.00	25	39 20 12 30	165.00		
16 16 16	10	60.00		20	80.00	25 25	30 10	165.00		
16	12 9	66.00 50.00	20 20 20	10 10	40.00 40.00	Δυ	10	55.00 84.00		
16	12	66.00	20	21	84.00	25 25 25	21 20 10	80.00		
10	20 20	80.00		92	1 559.00 1	25	10	50.00		
16 16	20 10	80. 00 65. 00	21	10 12	65, 00 66, 00	25	12	66.00 66.00		
16	10	55.00	21	12	66.00	25 25 25	12 11	63.00		
16 16	10 10	55.00	21	12	66.00	25	11 18	99.00		
16	10	55.00	21	18	99.00	25 25	12	72.00		
16 16 16	10	40.00 80.00	21	18 11	99. 00 53. 00	25 25	12 12	72.00 66.00		
16	20	80.00	21	12	72.00	25	12	66, 00		
16	20	80.00	21	12	72.00	25	12	66 00		
	20 20 20 20 10	80. 00 85. 00	21	12 20	72. 00 72. 00 72. 00 80. 00	25	12 12	66. 00 66. 00		
16	10	85.00	21	10	1 00.001	25	12	66.00		
16 16 16	10 10	70.00	21 21 21 21 21 21 21 21 21 21 21	21	84. 00 66. 00	25 25 25 25 27	11	61.00		
16	10 10	70.00 80.00	21	12 12	66.00	27	21	84.00 46.00		
16	10	80.00	21	12	66. 00 72. 00	27	10 10	48.00		
16 16	18	99.00	21 21 21 21 21 21 21 21	12	72.00 72.00 72.00 72.00 72.00 72.00	27 27 27 27 27	12	66.00		
17 17	10 10	80.00	21	12 12	72.00	27	12	66.00		
17	20	55. 00 80. 00	21	12	72.00		12 12	66.00 66.00 66.00		
17 17	10	65.00	21	12	72.00	27	12	66.00		
17	9 12	50.00	21	12 40	00.00	27	9 12	50.00		
17 17	12	66.00 66.00	21	20	220.00 65.00	27	20	60. 00 80. 00		
17	12 12	66.00	21 21 21 21	20	65.00	27	20 10	40.00		
17	12	66.00	21	10	33.00	27	20 10	80.00		
17 17	18 10	99. 00 60. 00	21	10 10	60. 00 50. 00	27	10	70.00 40.00		
17	440	2,746.00	21	20	80.00	27	10 10	83.00		
18	20	110.00	21 21	20	80.00	27	20 10	80, 00		
18 18	30	165.00	21	10 40	40.00	27	10	50.00 40.00		
18	440 20 30 12 12	72.00 72.00	22 22	125	220.00 770.00	27	20	80.00		
18	9	50.00		10	65.00	27	10 20 10	40.00		
18 18 18	12 12	66. 00 66. 00	22 22	20 10	\$0.00 40.00	## ## ## ## ## ## ## ## ## ## ## ## ##	20 10	80. 00 40. 00		
18	12	66.00	44	ii	53.00	27	20	80.00		
18	12 10	40.00		11	53.00	27	20 20 20 10	98. 00 80. 00		
18	10	85. 00 80. 00	1 92	10 10	70.00 70.00	27	20	80. 00 40. 00		
18 18	20	80.00	23 23	10	70.00	27	12	36.00		
18	30	98.00		10	44.00	27	12	80.00		
18 18	10 20 20 30 20 20 21	65.00	1 23.	10	<b>5</b> 5. 00	27	20	80.00		
18	20 21	80.00 84.00	23 23	9 12	50.00 72.00	27	*12 10	66. 00 55. 00		
18 18	10	40.00	23 23	12	66.00	27	20	<b>8</b> 0,00		
18	10	40.00	23	12	66.00	27	20 20 10	80.00		
18 18	10 10	40. 00 55. 00	23 23	12 12	72. 00 66. 00	27	10 404	40.00		
20	322	1,879.00	23	12	66.00	27 28	ii	<b>2, 408. 00</b> 59. 00		
20 20 20	30	165.00	23	12	66.00		11	62,00		
20	10 10	80.00 45.00	23 23	12	66.00 50.00	28	10	60.00		
20 20	10	45.00	23	18	199.00	28 28	12	50.00 66.00		
20	10	40.00	23	12	72.00	l 28l	10	60.00		
20 20	20 10	90.00 45.00	23	151	910.00 1,257.00	28	10	60.00		
<b>2</b> 0	10	1 40.00 1	24	206	1,257.00	28	12	66.00		

Pulp woods imported from Canada into the district of Champlain, port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

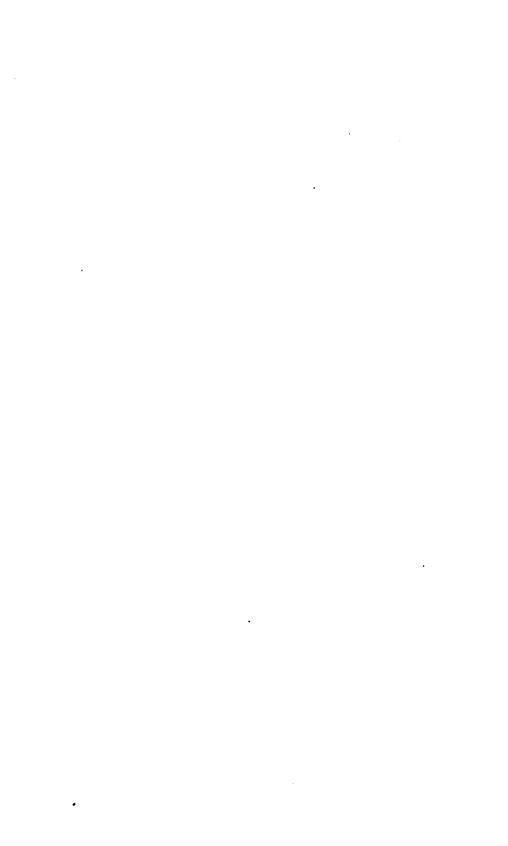
Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
1908.	Cords.	<b>\$5</b> 0. 60	1908. May 4	Cords.	\$90.00	1908. May 9	Cords.	
A pr. 28	19	66.00	_ay 4	20	98.00	may 9	20	\$80.00
28	10 20 15	66.00 40.00	4	20 30 20	65.00	9	20 20 12	80.00 78.00 40.00
28	20	40. 00 65. 00 75. 00 515. 00 1,207. 00 822. 00 70. 00 33. 00 65. 00	4	12	60.00	9	200 200 201 200 200 200 200 200 200 201 200 201 200 201 200 201 200 200	40.00
29 28	15	75.00	<b>4</b>	10	40.00	9	20	80.00 80.00 80.00 80.00 84.00
29	80 214	1.207.00	1	12 20	48. 00 60. 00	ğ	20	80.00
29	72	822.00	4	20 20	60.00	9	20	80.00
29	72 14	70.00	4	15	45, 00 65, 00	9	21	84.00
29 29	10	83.00	4	20		9	10	40.00
29 28	10 10	40.00	1	10 40	40.00	<b>9</b>	20	80.00
29	10	40.00	4	223	1.375.00	š	20	80.00
29	• 21	84.00	5	12 20	66.00	9	12	66.00
29	20	80.00	5	20	80.00	9	12	66.00
29 80	12	60.00	ğ	12 12	60.00	11	20	65.00
30	10 21 20 12 21 11 10	85.00	8	12	40. 00 220. 00 1,375. 00 66. 00 60. 00 66. 00 66. 00 63. 00	11	10	40.00
30	10	40.00	5	11	63.00	ii	10	40.00
30	21	84.00	δ	20	80.00	11	20	80.00
30	10	83.00	<u> </u>	10	40.00 66.00 99.00	11	21	84.00
30	10	66 00	,	. 12 18	90.00	;;	20	80.00
30	12	66.00	5	12	66.00	ii	20	40,00 80,00 80,00 86,00 66,00 65,00 40,00 80,00 80,00 80,00 80,00 80,00 80,00 80,00 80,00 80,00
30	12	66.00	5	12	66. 00 66. 00	11	21	84.00
30	12	66.00	5	12	66.00	11	20	80.00
<b>3</b> 0	10	72.00	, Ş	12 12	66.00	;;	20	80.00
30	21 10 10 12 12 12 12 10 10	84.00 80.00 84.00 84.00 84.00 83.00 66.00 66.00 66.00 66.00 66.00 66.00	5	20	66. 00 80. 00	ii	21	80.00 84.00 40.00 80.00 50.00 66.00
30	18	99.00	5	20 12	66.00	ii	10	40.00
30	12	66.00	δ	10	40.00	11	20	80.00
30	12	66,00	ð	10	33. 00 65. 00	11	9	50.00
30	12	66.00	5	21	84.00	11	12	66.00
30	12 12 12	66.00	5	21 21 14 20	91.00	ii	12 12 12 12 12 12 12 12 12 12 12 12 12 1	66.00
May 1	12	72.00	5	20	91. 00 80. 00	11	12	66. 00 66. 00 63. 00 63. 00 63. 00 66. 00 66. 00 66. 00 66. 00
1	~	50.00	δ	10 20	45.00	11	12	66.00
1	20	45.00	,	24	90.00 96.00	;;	12	63.00
1	10	55.00	6	24 24 20	96.00	ii	12	63.00
1	10 20 12 10 10 12 18 20 20 10 20	100.00	6	20	65. 00 65. 00	11	12	66.00
<u> </u>	12	92.00	6	20	65.00	11	20	80.00
1	10	52.00	8	15 100	45. 00 570. 00 1,094. 00 65. 00 96. 00	11	12	66.00
1	12	66.00	6	100 184	1.094.00	ii	12	66.00
1	18	90.00	7	20 24	65.00	11	12	66.00
<u> </u>	20	100.00	7	24 12	96.00	11	10	33.00
i	10	40.00	<b>4</b> ·····	12	66.00 66.00	11	20	90.00
ī	20	80.00	7	12	66, 00	ii	20	80.00
1	12	45. 00 55. 00 100. 00 92. 00 66. 00 90. 00 100. 00 80. 00 48. 00 48. 00	7	12	66.00 66.00	11	20	90. 00 80. 00 80. 00 80. 00
į	20 20 10 216 20 20 20 10 12 20 20 20 20	90.00	7	12	66.00	11	20	80.00
1	10	55.00	7	18 12	99.00	11	20	80, 00 80, 00 80, 00 80, 00 80, 00 80, 00 40, 00 40, 00 80, 00
1	216	1,316.00	7	20	66. 00 90. 00	ii	20	80.00
2	20	80.00	7	20 20 20 20 20 12	90.00 90.00 90.00	11	20	80.00
3	20	80.00	7	20	90.00	11	20 140	80.00
2	10	33.00	<b>4</b>	12	48.00	12	296	1 806 00
2	12	66.00	7	24	96.00	12	10	40.00
2	20	80.00	7	24	48. 00 96. 00 96. 00	12	9	45.00
3	20	80.00	7	24 24 20 10	96.00	12	20	80.00 80.00 80.00
2	10	40.00	<b>4</b> ·····	24	96. 00 90. 00	12	20	80.00
4	ě	50.00	7	10		12	20	en an
<b>4</b>	18	85,00 1,216,00 80,00 80,00 80,00 80,00 80,00 80,00 80,00 66,00 66,00 66,00 66,00	7	10 10	55.00 55.00 906.00 816.00 71.00	12	21	84. 00 60. 00 70. 00 45. 00 65. 00
4	12	66.00	7	10	55.00	13	12	60.00
Z	12	66.00	R	164 130	816.00	13	10	70.00
4	12	66. 00 66. 00 90. 00	8	9	71.00	18	20	65.00
4	12	66.00	9		45.00	13	10	40.00
<b>4</b>	18 12 12 12 12 12 12 20 20 20	90, 00 90, 00 90, 00	9	15 10 20 30	38.00 80.00 155.00	13	20 20 20 20 21 12 10 15 20 10 12 12	66. 00 66. 00
	20	eu. 00	9	20			12	50.00

Pulp woods imported from Canada into the district of Champlain, port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
1908.	Cords.		1908.	Cords.		1908.	Cords.	
May 13 13	12 12 12 12	\$66.00	May 18	20 10	\$80.00	May 22	20 20 20 10 60 30 11 11	\$40.00
13	12	66. 00 66. 00	18 18	20	71. 00 80. 00	22	20	80.00 80.00 80.00 40.00 360.00 180.00 92.00
13	12	l 66.00 l	18	20 22	88. 00 96. 00	22 22	20	80.00
13	12	66.00	18	24 22	96.00	22 22	10	40.00
13	12 110 12 12 12	660.00 66.00	18	22	88.00 88.00 45.00	23 .	30	190.00
14	12	66.00	18	10	45.00	23 23 23 23 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25 25 25 25 26 27 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28	ii	92.00
14	12	63.00	18 18 18 19	10	45. 00 80. 00	23	11	86.00 40.00
14	22 12 24 24 10 20 20 25 10 10 21 20 20 20 20 20 20 21 21 20 20 20 21 21 21 21 21 21 21 21 21 21 21 21 21	88.00 48.00	18	20 12	80.00 66.00	23	10	40.00
14	24	96.00	18	71	386.00	23	10 10 10 19 30 20 20	40.00 40.00
14	24	96.00	19	10	33. 00 50. 00	23	10	40.00 40.00
14 14	10	40.00	19 19 19 19	10	50.00 88.00	23	10	00 00
14	20	40.00 80.00 275.00	19	22 24 24	96.00	23	20	65. 00 90. 00 900. 00 575. 00 560. 00
14	50	275.00	19	24	96.00	23	20	90.00
14	20	1 110.00	19	12 12	66.00	23	147	900.00
14	20	65.00 125.00	19 19	12	66. 00 66. 00	20	115 112	575.00 560.00
15	10	40.00	19	12	66.00	25	113	565.00
15	10	40.00 40.00	19	12	66. 00 66. 00	25	113	565.00
15 15	21	84. 00 80. 00	19 19	12 12	66. 00 66. 00	25	10 11	565. 00 565. 00 55. 00 55. 00
15	20	80.00	19	12	66.00	25	10	33, 00
15	10	80.00 40.00 80.00	19	12	66.00	25	22	88.00
15	20	80.00	19	12 12	66.00	25	15	75.00
15 15	10	80.00	19	12	66. 00 66. 00	25	20	80.00
15	18	40.00 99.00	19	18	99.00	25 25 25 25 25 25	10	40.00
15 15	1 9	50.00 66.00	19	18	99.00	25	20	80.00
15 15	12	66.00	19 20	18	99. 00 98. 00	25	12	66.00
15	12 12	66.00	20	30	98.00	25	10	52.00
15	12 12	66.00	20 20 20	30 30 12 22	48.00 88.00	25	10 22 15 12 20 10 20 12 12 10 12	66.00
15	12 153	66.00 66.00 66.00 60.00 876.00 92.00 54.00	20	22	88.00	25 25 25 25	12	88. 00 75. 00 60. 00 80. 00 80. 00 86. 00 66. 00 62. 00 66. 00 89. 00 92. 00
15 16	103	92.00	20	22 12	88.00 66.00 120.00		12 11 11	92.00
18	12 12	54.00	20	20	120.00	25 26 26 26	11	92.00 92.00 80.00 80.00 295.00 725.00
16 16 16	20		20 21 21	182	1, 154. 00 66. 00 68. 00	26	20 20 50 120	80.00
16	20	90.00	21	12 12	66.00	26	50	295.00
10	20	90.00 90.00 90.00 90.00 90.00 66.00	21 21 21 21	12	1 66.00 1	26 27 27	120	725.00
16	20	90.00	21	12	66.00	27	15 10 10 12 12	75. 00 75. 00 55. 00 33. 00 60. 00
16 16	120	90.00 66.00	21	12 10	66.00 40.00	27	10	33.00 33.00
16 16	12	66. 00 66. 00 92. 00 98. 00	21	20	80.00 80.00	27	12	80.00
16	12	66.00	21	20	80.00	27	12	60.00
16	112	92.00	21 21	20	80.00	27	12 10	78. UU
16 16	20	66.00	21 21	20	80.00 80.00	27	10 12	78. 00 40. 00 40. 00 92. 00
16 .	12	66. 00 66. 00	21	20 20 20 20 20 20	80.00	27	12	92.00
16 16	12	66.00 66.00	21 21	20 21	80.00 84.00	27	11	63.00
16 16 16	20 20 20 20 20 20 12 12 12 20 20 20 20 20 20 20 20 20 20 20 20 20	120.00	21	21 20	84. 00 80. 00 60. 00 415. 00	77	11 12 119	66.00 595.00 575.00 40.00
16	74	<b>532</b> .00	21	12	60.00	27	115	575.00
18 18	10	45.00 45.00	21	83 10	415.00 60.00	28	10	
18	20	00.00	21	166	1.131.00	28	20	80.00
18 18 18	20	90.00 90.00	21 21 22	12	1,131.00 48.00	28	20 20 11 12 12	80. 00 61. 00 63. 00 66. 00
18	20	90.00	22 22 22	20 12	80.00	28	12	63.00
18 18	20	90.00 90.00	22	12	92.00 93.00	28	12	66.00
18	20	i on na i	22	12	93.00	28	12	66.00
18	20	90.00 45.00 69.00	22	12 12	66.00	28	12 12 11 12	66, 00 66, 00 92, 00 97, 00 95, 00 92, 00 92, 00 90, 00 90, 00 86, 00
18 18	10	\$5.00 80.00	22	9	66.00 44.00	28	10	97.00 96.00
18	12	66.00	22	10	54.00	28	12	92.00
18 18	12	66,00	22	13	98.00	28	12	92.09
18 18	12	66, 00 92, 00	22 22	14 12	98.00 92.00	28	12	972.00 AA AA
18	12	96.00	22 22	12	92.00	28 28 28	12 12 12 10 11	90.00
18	12	92.00 92.00	22	11 10	86.00	28	11 20	86.00
18	12	92.00	22 22	10	80.00	28	20	80.00
18 18	12 10	92.00 70.00	22	20 20	80.00 80.00	28 28	20 10	80. 00 44. 00
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Pulp woods imported from Canada into the district of Champlain, port of Plattsburg, N. Y., during the period January 1, 1907, to June 1, 1908—Continued.

Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
1908. May 28 29 29 29 29 29 29 29	Cords. 172 44 80 12 10 20 10 10 10 12	\$939.00 245.00 475.00 60.00 60.00 80.00 40.00 58.00 92.00	1908. May 29 29 29 30 30 30	Cords. 11 11 12 11 11 10 10 20 21	\$92.00 \$2.00 \$6.00 \$6.00 40.00 40.00 80.00 84.00 80.00	1908. May 30 30 30 30 Total	Cords. 10 20 10 20 10 10 10	\$40.00 80.00 40.00 80.00 55.00 40.00



# PULP AND PAPER INVESTIGATION HEARINGS

1908 -

# IMPORTATION STATISTICS

(CONTINUED)

# SELECT COMMITTEE OF HOUSE OF REPRESENTATIVES

James R. Mann, Illinois, Chairman

James M. Miller, Kansas Henry T. Bannon, Ohio

William H. Stafford, Wisconsin Thetus W. Sims, Tennessee

William H. Ryan, New York

NO. 31

WASHINGTON
GOVERNMENT PRINTING OFFICE
1908

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# WOOD PULP, PRINT PAPER, ETC.

The following tables, prepared and submitted by the Treasury Department at the request of the Select Committee on Pulp and Paper Investigation and under the direction of the President, are continued from No. 30 of the hearings.

They show the date of arrival, quantity, appraised value, and country of origin of each importation of mechanically ground wood pulp, chemical pulp, unbleached and bleached, filter masse or filter stock, printing paper, and pulp woods specified in paragraphs 393, 395, 396, and 699 of the tariff act of July 24, 1897, together with the duties, including countervailing duties, collected thereon for the period from January 1, 1907, to June 1, 1908. The ports included in this number are as follows: Alburg, East Alburg, Swanton, St. Albans, Richford, Newport, Vt.; Baltimore, Md.; Philadelphia, Pa.; New York, N. Y.; Bridgeport, New London, Conn.; Boston, Mass.; and Bangor, Me.

## PORT OF ALBURG, VT.

Detailed statement showing date of arrival, quantity, appraised value, and duties collected on mechanically ground wood pulp imported at Alburg, Vt., from the Dominion of Canada from January 1, 1907, to June 1, 1908, with amount of additional duties collected under provise to paragraph 393, tariff act of 1897.

Date of arrival.	Quantity.	Appraised value.	Total duties, includ- ing in- creased and ad- ditional.	Additional duties under proviso to pargraph 393.	Date of arrival.	Quantity.	Appraised value.	Total duties, includ- ing in- creased and ad- ditional.	Additional duties under proviso to paragraph 393.
1907. Jan. 2 3 3 3 4 4 4 5 8 9 12 14 119 119 122 22 22 22 22 22 22 22 22 22 22 22 22	Pounds. 35,000 66,640 30.100 42,128 35,000 35,000 38,460 32,720 32,160 175,700 20,160 175,700 32,620 32,200 32,200 32,200 32,200 32,200 32,200 32,200 32,200 32,200 32,200 33,200 33,200 30,100	\$200.00 417.00 173.00 448.00 173.00 200.00 515.00 561.00 180.00 568.00 173.00 173.00 225.00 180.00 226.00 116.00 173.00 226.00 173.00 173.00 173.00 173.00 173.00 173.00 173.00 173.00 173.00 173.00 173.00 173.00 173.00 173.00 173.00 173.00 173.00 173.00 173.00 173.00 173.00 173.00 173.00 173.00	\$33, 55 63, 86 28, 86 35, 11 28, 84 23, 55 85, 73 37, 57 90, 16 81, 36 94, 59 28, 84 19, 32 168, 38 37, 57 27, 91 28, 84 59, 03 31, 26 59, 23 31, 26 59, 28 41, 29 41, 20 41, 20	\$4.38 8.33 3.76 4.38 11.18 4.90 11.76 4.00 12.34 4.00 2.62 2.62 2.64 3.76 4.90 4.90 4.90 4.90 4.90 4.90 4.90 4.90	1907. Feb. 1 7 8 8 8 9 11 12 12 12 16 16 16 16 18 19 19 19 19 21 221 221 22	Pounds. 21,000 30,100 30,100 60,340 39,200 60,200 60,200 60,200 30,100 20,300 124,600 50,500 141,400 55,300 25,200 126,420 45,500 30,100 174,444	\$131.00 173.00 214.00 214.00 173.00 173.00 173.00 177.00 109.00 716.00 1177.00 813.00 115.00 491.00 127.00 127.00 128.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00 129.00	\$20. 13 28. 84 57. 87 57. 70 28. 84 28. 84 57. 70 57. 70 57. 70 58. 84 19. 46 119. 41 28. 84 135. 51 62. 195 81. 85 121. 15 81. 85 121. 15 63. 61 19. 46 167. 18	\$2.63 2.754 4.90 7.53 3.76 3.76 3.76 3.76 3.76 3.15 10.68 15.80 3.15 10.68 15.80 2.74 2.54 2.54
Total	43,987 1,200,475	467.00 7,393.00	36. 66 1, 139. 69		Total	69,300 1,429,400	398. 00 8,238. 00	66. 41 1,360. 86	8. 66 178. 70

Detailed statement showing date of arrival, quantity, appraised value, and duties collected on mechanically ground wood pulp imported at Alburg, Vt., from the Dominion of Canada from January 1, 1907, to June 1, 1908, with amount of additional duties collected under proviso to paragraph 393, tariff act of 1897—Continued.

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Date of arrival.	Quantity.	Appraised value.	Total duties, includ- ing in- creased and ad- ditional.	Addi- tional duties under proviso to par- graph 393.	Date of arrival.	Quantity.	Appraised salue.	Total duties, includ- ing in- creased and ad- ditional.	Additional duties under proviso to paragraph 393.
1907. Mar. 1 1 7 22 22 22 30	Pounds. 30,100 25,200 19,380 73,080 46,620 26,910	\$173, 00 136, 00 245, 00 853, 00 544, 00 300, 00	\$28.84 24.15 16.15 60.90 38.85 22.43	\$3.76 2.15	1907. July 15 16 16 16 17 20	Pounds. 30, 702 57, 600 30, 702 31, 816 134, 232 39, 984	\$184.00 345.00 184.00 342.00 805.00 240.00	\$29. 43 48.00 29. 43 30. 49 128. 64 38. 32	\$3. 84 3. 84 3. 98 16. 78 5. 00
Total	221,290	2,251.00	191. 32	6. 91	20 20 22	28, 800 24, 700	173, 00 226, 00	24.00 23.67	3.09
Apr. 2 2 3 . 4 5	21,528 42,900 60,200 60,200 149,800 30,100	240.00 422.00 346.00 346.00 861.00 173.00	17. 94 35. 75 57. 70 57. 70 143. 50 28. 84	7. 53 7. 53 18. 73 3. 76 3. 76	22 22 22 22 22 22 22 22 22 22 22 22 22	139, 944 35, 700 79, 968 23, 140 31, 816 67, 200	840. 00 214. 00 480. 00 226. 00 342. 00 836. 00	134. 11 34. 21 76. 64 22. 17 30. 49 56. 83	17. 49 4. 46 10. 00 2. 89 3. 98 . 85
9	30,100 67,886	173.00 175.00	28. 84 56. 57	3.76	Total	1, 336, 477	9, 244. 00	1, 242. 29	128.58
9 9 11 15 23 24	36, 540 34, 496 60, 200 35, 280 35, 280 35, 280 30, 100	413.00 394.00 346.00 416.00 399.00 414.00 173.00	30. 45 28. 75 57. 70 29. 40 29. 40 29. 40 28. 84	7. 53	Aug. 1 8 5 6 6 6	78, 254 82, 369 86, 130 117, 810 42, 421 26, 590 97, 294 91, 500	470.00 401.00 861.00 707.00 456.00 286.00 973.00 460.00	74. 99 73. 77 77. 98 112. 91 40. 65 25. 48 93. 24 81. 97	9. 78 5. 15 6. 20 14. 73 5. 30 3. 32 12. 16
Total	729, 890	5, 891. 00	660.78	52.60	8	21, 212 55, 852	229.00 513.00	20. 33 50. 56	5.72 2.65 40.02
May 4 7 11 13 13 13 14 18	38, 610 36, 685 39, 900 110, 600 30, 100 48, 000 31, 130 76, 560	367. 00 367. 00 229. 00 636. 00 173. 00 288. 00 303. 00 734. 00	34. 96 33. 21 38. 24 106. 00 28. 84 40. 00 28. 18 69. 31	2. 78 2. 64 4. 99 13. 83 3. 76 2. 24 5. 51	10 13 13 17 22 29 30 30	30, 702 28, 800 63, 632 57, 700 60, 610 36, 685 36, 685 54, 900	184. 00 173. 00 684. 00 346. 00 606. 00 367. 00 367. 00 302. 00	29. 43 24. 00 60. 98 48. 00 54. 87 33. 21 33. 21 52. 61	7. 96 4. 36 2. 64 2. 64 6. 86
21 22 24	73, 370 96, 600 30, 702	734.00 570.00 184.00	92. 58	5. 28 12. 08	Total	1,069,146	8, 384, 00	988. 19	97. 32
21 22 24 24 28 29 80 Total	75, 350 101, 388 54, 230 46, 410	718.00 609.00 542.00 278.00	29. 43 68. 22 97. 16 49. 09 44. 48	3. 84 5. 43 12. 67 3. (0 5. 80	Sept. 3 3 5 5 5 7	91, 350 60, 609 18, 291 18, 724 18, 428 35, 887	512, 00 606, 00 155, 00 159, 00 157, 00 359, 00	87. 55 64. 87 15. 24 15. 60 15. 36 32. 49	11. 42 4. 36
June 3	56, 406 71, 775 26, 590	239.00 718.00	54.06 64.98	7.05	7 7 9 9	18, 358 35, 090 18, 348 18, 880	156. 00 351. 00 156. 00 160. 00	15. 30 31. 77 15. 29 15. 73	2.53
5 6 11 12 12	58, 406 73, 150 31, 816 31, 816 26, 590	286. C0 628. 00 718. 00 342. 00 342. 00 286. 00	25. 48 55. 97 66. 23 30. 49 39. 49 25. 48	5. 17 3. 32 7. 30 5. 27 3. 98 3. 98 3. 32	10 11 17 18 18 18	43,065 18,821 56,413 37,125 153,300 23,925	331. 00 160. 00 480. 00 367. 00 1, 533. 00 239. 00	38. 99 15. 68 47. 01 33. 61 146. 91 21. 66	2 67 19 16 1. 72
11 12 14 18 18 22 22 26 27	31, 816 24,000 71,775 76,800 71,775 28,800	342. 90 144. 00 718. 00 461. 90 718. 00 173. 00 428. 00	30, 49 20, 00 64, 98 64, 00 64, 98 24, 00 68, 43	3.98 5.17 5.17	18 20 21 21 24 25 25	18,633 37,606 62,645 36,685 61,910 86,400	158. 00 320. 00 606. 00 367. 00 619. 00 518. 00 157. 00	17. 86 31. 34 56. 71 83. 21 59. 33 72. 00	2.33 4.51 2.64 7.74
_	71, 400 85, 700	214.00	34. 21	4.46	26 27 27	18, 472 18, 500 62, 725	157.00 157.00 627.00	15. 39 15. 42 60. 11	7.84
Total	788, 615	6,857.00	724. 27	67. 10	Total	1,070,190	9, 410. 00	964. 43	72.60
July 2 3 9 10 11 11 11 13	35, 090 64, 597 76, 670 57, 600 117, 810 167, 790 31, 816 28, 800	351. 00 646. 00 734. 00 346. 00 707. 00 1,007. 00 342. 00 173. 00	31. 77 58. 48 69. 41 48. 00 112. 91 160. 80 30. 49 24. 00	2. 53 4. 65 5. 52 14. 73 20. 97 3. 98	Oct. 1 1 4 5 11 11	28 800 17.545 19.200 28.800 28,060 57,600 69,320	173.00 175.00 115.00 115.00 173.00 154.00 346.00 700.00	24.00 15.88 10.00 24.00 23.38 48.00 65.44	1.26

Detailed statement showing date of arrival, quantity, appraised value, and duties collected on mechanically ground wood pulp imported at Alburg, Vt., from the Dominion of Canada from January 1, 1907, to June 1, 1908, with amount of additional duties collected under proviso to paragraph 393, tariff act of 1897—Continued.

					<u> </u>				
Date of arrival.	Quantity.	Appraised value.	Total duties, including increased and sdditional.	Additional duties under proviso to pargraph 393.	Date of arrival.	Quantity.	Appraised value.	Total duties, includ- ing in- creased and ad- ditional.	Additional duties under proviso to paragraph 393.
1907.	Pounds.	1	1		1908.	Pounds.	1		
Oct. 14	117,905	\$1,187.00	\$112.99	\$14.74	Jan. 3	47,320	\$473.00	843, 57	84.14
14	27,132	231.00	22. 61		4	16,144	161.00	14.86	1.41
17	19, 200	115.00	16.00		4	51,260	479.00	46. 41	3.60
25	29, 280	161.00	24. 40		6	28,800	173.00	24.00	
26	29, 280 28, 060	161.00	24. 40		7	23, 584	236.00	21.71	2.06
29 29	28,000	154.00	23.38		8 9	49, 440	288.00	41.20	
20	86, 400	518.00	72.00		10	77,550 28,800	734.00 173.00	70. 21 24. 00	5. 58
Total	586, 582	4, 363. 00	513. 48	24. 67	16	28,800	173.00	24.00	
1000	000,000	2,000.00	010. 20	22.01	17	28,800	173.00	24.00	
Nov. 6	95, 101	1,343.00	82. 82	3.57	24	28,800	173.00	24.00	
8	67, 100	365.00	80.11	4.19	27	23, 485	223.00	21. 26	1.69
• 8	71,716	1,013.00	62. 45	2.69	28	22,990	223.00	20.82	1.68
13	86,400	518.00	72.00	<u>-</u>	30	24, 475	223.00	22. 16	1.76
14	36,600	197.00	32.79	2.29	1				
19	34, 292	343.00	31.05	2.47	Total	480, 248	3,905.00	422. 20	21.99
21 25	86, 400 23, 925	518.00 239.00	72.00 21.66	1.72	Feb. 7	99,000	223. 00	20, 82	1,66
20	23, 923	239.00	21.00	1.72	13	22,990 25,575	223.00	23. 15	1.84
Total	501, 534	4, 536. 00	434. 88	16.93	17	24,750	223.00	22. 41	1.78
	501,501	4,000.00	101.00	10.20	21	47, 569	336.00	43.06	8.42
Dec. 3	61,000	336, 00	52, 74	1.91	• 24	94,875	664, 00	85, 89	6. 83
3	28, 800 19, 200	173.00	24.00		25	47,080	325.00	42.62	3. 39
4	19, 200	115.00	16.00			<del></del>	<del></del>		
4	42,700	214.00	36.91	1.33	Total	262, 839	1,994.00	237. 95	18.92
7	28,670	158.00	23.89	<i>-</i>	30	47 700	207 00	10.00	
9 12	19, 200	115.00	16.00	<u></u>	Mar. 2	47, 520	335.00	43.02	3. 42
12	52, 216 57, 600	522. 00 346. 00	48.08 48.00	4.57	10	89, 320 44, 660	670.00 447.00	80. 86 40. 44	6. 43 3. 22
12	190, 190	1.371.00	182. 26	23.77	16	17 545	175.00	15.88	1.28
12 12 12 13 13	88, 130	635. 00	84. 46	11.02	18	17,545 22,330	223.00	20. 22	1.61
13	25, 200	228.00	23. 21	2. 21	20	66,990	670.00	60.65	4.82
13	28, 800	173.00	24, 00		24	22, 330	223.00	20. 22	1.61
14	38, 280	267.00	34.66	2.76	24	33, 495	335.00	30. 32	2.41
16	83,380	240.00	31.99	4.17	27	33, 495	335.00	30. 32	2.41
17	46,750	439.00	42. 33	8. 37	27	22, 330	223.00	20. 22	1.61
21	51,776	518.00	47.68	4. 53	28	19,200	115.00	16.00	
21	35, 585 30, 810	343.00 222.00	32. 22 29. 53	2. 56 3. 85	Total	419, 215	8,751.00	378. 15	28. 80
22	43, 106	431.00	39. 69	3.77	1000	419, 210	8, 751.00	0/6-10	20.00
17 21 22 23 24 24 24 26 31	23,925	239.00	21.66	1.72	Apr. 4	33, 495	335, 00	30. 32	2, 41
24	57,600	346.00	48.00	<u>:-</u>	9	33, 495	335. 00	30.32	2.41
24	63,744	638.00	58. 73	5. 58	21 25	44,660	447.00	40. 44	8. 22
26	30,630	221.00	29. 36	3.83	25	75, 443	754.00	68.30	5. 42
31	47,850	479.00	45. 81	5.93		400 000	4 000 000	100.5-	
	73,370	850.00	69. 29	8.15	Total	187,093	1,871.00	169. 38	13. 45
Total	1, 218, 542	9, 419. 00	1,110.50	95. 03			1		
	<del>'</del>		<u>'</u>	<u>'</u>	<u>'</u>		<u>'                                      </u>	<u>'</u>	

NOTE.—No transactions in May.

Detailed statement showing date of arrival, quantity, appraised value, and duties collected on mechanically ground wood pulp imported at Alburg, Vt., from the Dominion of Canada from January 1, 1907, to June 1, 1908, with amount of additional duties collected under proviso to paragraph 393, tariff act of 1897—Continued.

#### RECAPITULATION.

Date of arrival.	Quantity.	Appraised value.	Total duties, in- cluding increased and additional.	Additional duties under provise to paragraph 303.
January. February February March April May June July August Beptember October November December	1,439,400 221,290 729,890 889,635 788,615 1,336,477 1,069,146 1,070,190 586,562 501,534	\$7,393.00 8,238.00 2,251.00 5,891.00 6,732.00 6,857.00 9,244.00 9,410.00 4,373.00 4,373.00 9,419.00	\$1,130.60 1,269.86 191.32 600.78 836.12 724.27 1,242.29 968.19 964.43 513.45 434.88 1,110.50	\$130.20 178.70 6.91 52.60 54.75 67.10 128.88 97.32 72.60 24.63 25.63 96.08
January. 1908. February. March April Total.	262,838 419,215 187,093	3,905.00 1,994.00 3,751.00 1,871.00 94,239.00	122. 20 237. 95 378. 15 169. 38 11,073. 49	21. 99 18. 99 28. 80 13. 46

Detailed statement showing date of arrival, quantity, appraised value, and duties collected on unbleached chemical wood pulp imported at Alburg, Vt., from the Dominion of Canada from January 1, 1907, to June 1, 1908, with amount additional duties collected under proviso to paragraph 393, tariff act of 1897.

Date of arrival.	Quantity.	Appraised value.	Total duties, including in- creased and addi- tional.	Addi- tional duties under proviso to para- graph 393.	Date of arrival.	Quantity.	Appraised value.	Total duties, including in- oreased and addi- tional.	Additional duties, under proviso to paragraph 393.
1907. Jan. 3 7 8 10	Pounds. 36,778 39,857 68,282 72,756	\$593.00 713.00 1,162.00 1,180.00	\$65. 83 71. 34 122. 21 130. 22 143. 57	\$4.53 4.91 8.41 8.96	1907. Mar. 1 6 18 26	Pounds. 75,047 44,010 47,850 40,005	\$1,214.00 816.00 849.00 640.00	\$134.33 78.78 85.65 71.61	\$9.25 5.42 5.90 4.98
16 16 22	80,215 81,593 40,245	1,297.00 1,322.00 650.00	143. 57 146. 04 72. 04	9. 88 10. 05 4. 96	Total	206,912	3,519.00	370.38	25. 50
Total	419,726	6,917.00	751.25	51.70	Apr. 22	42,537	769.00	76.14	5. 24
Feb. 1 2 4 6 6 6 9 11 13 13 15 19 20 22	76,660 102,598 19,448 38,403 34,031 35,600 37,541 110,352 70,876 19,533 40,406 34,973 70,656 33,095	1,244.00 1,660.00 297.00 619.00 561.00 566.00 1,790.00 1,148.00 298.00 718.00 646.00 1,144.00	137, 23 183, 64 35, 88 68, 74 60, 91 63, 73 67, 20 197, 58 126, 86 38, 05 72, 32 62, 64 126, 47	9. 45 12. 64 3. 47 4. 73 4. 19 4. 39 4. 63 13. 60 8. 73 3. 49 4. 98 4. 31 8. 71 4. 08	May 1 9 11 18 18 18 18 18 21 30 Total	41,009 39,152 45,375 38,183 39,354 38,357 43,173 36,515 43,916 76,072 441,106	725. 00 691. 00 787. 00 718. 00 711. 00 711. 00 645. 00 814. 00 1,351. 00 7,876. 00	73. 40 70. 07 81. 22 68. 24 70. 44 68. 66 77. 28 65. 36 78. 60 136. 16	5.06 4.83 5.59 4.70 4.85 4.73 5.32 4.50 5.41 9.37 54.34
Total	724, 181	11,915.00	1,298.39	91. 40	11 12 15	38,848 40,056 73,492	686. 00 709. 00 1,302. 00	09. 54 71. 70 131. 56	4.79 4.94 9.06

Detailed statement showing date of arrival, quantity, appraised value, and duties collected on unbleached chemical wood pulp imposted at Alburg, Vt., from the Dominion of Canada from January 1, 1907, to June 1, 1908, with amount additional duties collected under proviso to paragraph 393, tariff act of 1897—Continued.

Date of arrival.	Quantity.	Appraised value.	Total duties, including in- creased and addi- tional.	Additional duties under proviso to paragraph 393.	Date of arrival.	Quantity.	Appraised value.	Total duties, including in- creased and addi- tional.	Additional duties, under proviso to paragraph 393.
1907. June 17 24	Pounds. 38,349 35,484	\$680.00 645.00	\$68. 65 65. 31	\$4.73 4.50	1907. Oct. 18	Pounds. 88, 664 39, 917	\$1,568.00 789.00	\$158.69 71.45	\$10.92 4.92
Total	279,169	4,942.00	499.72	34. 42	Total	417,027	7, 538. 00	746. 41	51.87
July 9 9 9 15	39,721 85,254 40,172 44,763 88,054	699.00 1,514.00 742.00 793.00 1,564.00	71.09 152.59 71.90 80.13 157.61	4. 89 10. 50 4. 95 5. 52 10. 85	Nov. 5 9 15 27	41, 594 34, 291 34, 548 42, 265	766.00 632.00 683.00 841.00	74. 44 61. 38 61. 84 75. 65	5. 12 4. 23 4. 26 5. 21
20 22 26	47,064	872.00	84. 22	5. 80	Total	152, 698	2,922.00	273. 81	18.82
Total	44,510 389,538	791.00 6,975.00	79. 66 697. 20	47.99	Dec. 23 81	39 874 87, 844	788.00 748.00	71.87 67.73	4. 91 4. 66
Aug. 4	43,912	779.00	78. 60	5. 41	Total	77,718	1, 586, 00	139. 10	9. 57
7 7 7 10 12	45,943 35,534 44,223 34,323 85,422	812.00 627.00 817.00 604.00 1,514.00	82. 23 63. 60 79. 16 61. 44 152. 90	5. 66 4. 38 5. 45 4. 23 10. 53	1908. Jan. 4 13	35, 825 40, 137	657.00 795.00	64. 12 71. 85	4.41 4.96
24 26	42,154 42,314	743.00 745.00	75. 45 75. 73	5. 19 5. 21	Total	75.962	1, 452.00	135.97	9.36
26 28	43,316 89,230	767. 00 1,681. 00	77. 53 159. 71	5. 34 10. 99	Feb. 4	40,060 39,210	794.00 794.00	71. 71 70. 18	4. 94 4. 83
Total	506,371	9,089.00	906. 35	62.39	Total	79, 270	1, 588. 00	141.89	9.77
Sept. 3	42,984 89,512 77,551	851.00 1,587.00 1,376.00	76. 94 160. 22 138. 81	5. 30 11. 03 9. 56	Mar. 11 20	40, 290 41, 856	799.00 774.00	72.11 74.92	4. 96 5. 16
14 19	81.502 88.743	1,445.00 1,574.00	145.88 158.84	10.04	Total	82, 146	1,573.00	147.03	10.12
20 23 24	89. 185 85, 387 87, 378	1,580.00 1,510.00 1,548.00	159.63 152.83 156.40	10.99 10.62 10.77	Apr. 6 7 7	47,783 38,444 39,594	862, 00 705, 00 725, 00	85. 55 68. 81 70. 87	5.91 4.74 4.88
26	44, 898	795.00	80.36	5. 53	Total	125, 821	2, 292. 00	225. 23	15. 53
Total	687,140	12, 266. 00	1,229.91	¥4. 67	May 15	41, 178	752.00	73.70	B. 07
Oct. 8 7 11	39, 739 85, 802 87, 404	787.00 1,516.00 1,544.00	71, 13 153, 57 156, 43	4.90 10.57 10.76	16 21	84,604 39,262	632.00 718.00	61. 93 70. 28	4. 26 4. 84
14	75, 501	1,834.00	135. 14	9. 30	Total	115,044	2, 102. 00	205.91	14.17

Desciled statement showing date of arrival, quantity, appraised value, and duties collected on unbleached chemical wood pulp imperted at Alburg, Vt., from the Dominion of Canada from January 1, 1907, to June 1, 1908, with amount additional duties collected under proviso to paragraph 393, tariff act of 1897—Continued.

#### RECAPITULATION.

Date of arrival.	Quantity.	Appraised value.	Total duties, including increased and additional.	Additional duties under proviso to paragraph 393.
January 1907.  January February March April May June July August September October November December	724, 181 206, 912 42, 537 441, 106 279, 169 889, 538 506, 371 687, 140 417, 027	\$6, 917. 00 11, 915. 00 3, 519. 00 769. 00 7, 876. 00 4, 942. 00 6, 975. 00 9, 089. 00 12, 266. 00 7, 538. 00 2, 922. 00 1, 536. 00	\$751. 25 1, 298. 39 370. 38 76. 14 789. 53 499. 72 697. 20 906. 35 1, 229. 91 746. 41 273. 31	\$51. 70 91. 40 25. 50 5. 24 54. 34 34. 42 47. 99 62. 39 84. 67 51. 87 18. 82 9. 57
January. February. March. April. May Total.	79, 270 82, 146 125, 821 115, 044	1, 452.00 1, 588.00 1, 573.00 2, 292.00 2, 102.00 85, 271.00	135. 97 141. 80 147. 03 225. 23 205. 91 8, 633. 72	9. 26 9. 77 10. 12 15. 53 14. 17

Detailed statement showing date of arrival, quantity, appraised value, and duties collected on news-printing paper, unsized, valued at not above 2 cents per pound, imported at Alburg, Vt., from the Dominion of Canada from January 1, 1907, to June 1, 1908, with amount of additional duties collected under provise to paragraph 396, tariff act of 1897.

Date of arrival.	Quantity.	Appraised value.	Total du- ties, in- cluding increased and ad- ditional.	Additional duties under proviso to paragraph 396.	Date arrive		Quantity.	Appraised value.	Total du- ties, in- cluding increased and ad- ditional.	Additional duties under proviso to paragraph 396.
1907. Apr. 17	Pounds. 31,750	<b>\$</b> 524.00	<b>\$</b> 95, 25		1907 July	7. 15	Pounds. 53, 236	<b>89</b> 58.00	\$159.71	
May 8	5, 455	90.00	16.37		, ,,,,,	15	51,674	956,00	155, 02	
June 4	38, 363	710.00	115.09		i	15	53.033	981.00	159, 10	
4	28, 617	529.00	85, 85		l	16	37,086	668, 00	111.26	
5	39, 298	727.00	117.89		1	19	48, 822	903, 00	146, 47	
6	36, 649	678.00	109.95			19	49,771	921.00	149.31	1
6	36, 240	670.00	108.72			26	85, 941	647.00	107.82	
6	45, 509	842.00	136.53	<b></b>	Oct.	9	44, 230	818.00	132, 69	
10	80, 254	560.00	90.76			15	39, 936	739.00	119.81	
10	28, 905	720.00	116.72	<b></b>	1	21	46, 182	831.00	138.55	
11	<b>84</b> , 939	646,00	104. 82	<b></b>	Nov.	6	38, 709	716.00	116, 13	
15	88, 309	616.00	99.93	i <b></b>	l	12	43, 136	798,00	129.41	
15	33, 672	623.00	101.02	' <b></b>			ł		1	1
17	31, 127	576.00	93_38	<b>.</b>	1908				1	1
July 9	51,833	969.00	<b>155</b> . 50	<b></b>	May	16	42,500	850.00	186, 21	\$8.71
10	34, 963	647.00	104.89		l	_				
15	44, 507	801.00	133, 52		Tot	لم	1,179,646	21,704.00	3.547.68	8.71

Detailed statement showing date of arrival, quantity, and value of pulp woods imported from the Dominion of Canada and entered under paragraph 699, at the port of Alburg, Vt., from January 1, 1907, to June 1, 1908.

	Date of urrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
Jan.	1907.	Cords.	\$1,028.00	1907. Apr. 3. 4. 5. 6. 8. 9. 10. 11. 12. 13. 15. 16. 17. 18. 19. 20. 22. 23. 24. 25. 26. 27. 29. 30. May 1. 2. 3. 4. 6.	Cords.	\$777.00	July 5 6 8 9 9 10 11 12 23 24 25 26 27 27 28 30 Oct. 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Cords.	\$782.00
	2 3	358	1,420.00	Apr. 3	209	890.00	5 day 5	311	1, 259, 00
	4	218 227 253 226	1 02543 (11) 1	5	280		8	311 508	2, 639, 00
	5	227	989.00	6	364	1,431.00	.9	376 186	1,588.00
	7	203	989.00 1,002.00 906.00	8	610	1,478.00 1,431.00 532.00 2,633.00 1,394.00 1,168.00 3,698.00 4,719.00	10	228	851.00 1,083.00 768.00 1,697.00 1,574.00 5,658.00 1,115.00
	9	121	PAN AN	10	349	1,394,00	12	202	768.00
	10	235	918.00 608.00 613.00	11	490	1,954.00	13	416	1,697.00
	11	140 138	608.00	12	315	1, 168. 00	15	336 1,299 219	1,574.00
	12	138 285	1 215 00	13	1 129	4,719.00	10	1,290	0,658.00
	15	340	1, 315. 00 1, 462. 00	16	1,120	2 183 00	18	486	2 184 00
	16	221 262	895.00 1, 120.00 813.00 728.00 855.00 223.00	17	301	1,376.00 1,741.00	19	261	2, 184. 00 1, 118. 00 2, 805. 00
	17	262	1, 120.00	18	343	1,741.00	20	635 1,287 33	2,805.00
	18	192 164	813.00	19	560	2, 199. 00 1, 379. 00	23	1,237	5, 408. 00 132. 00
	21	181	855.00	20	450	1 960 00	25	521	2 308 00
	22	45 172 234	223.00	23	1,024	1,960.00 4,151.00	26	521 734	2,398.00 3,157.00 1,975.00
	23	172	000.00	24	149	603. 00 2, 768. 00	27	496 627	1,975.00
	24	234	1,113.00	25	680	2,768.00	29	627	) 2. (NK. UD
	25	259 388	1,031.00	20	207	1,752.00	30	290	1,305.00 835.00
	24 25 28	174	740.00	29	1.740	1,752.00 1,246.00 7,112.00 2,238.00	Aug. 1	290 210 451	1.933.00
	29	152	677.00	30	576	2, 238. 00	2	86	1,933.00 364.00
	30	151	594.00	May 1	202		3	916	12 672 OO
<b>.</b>	29 30 31	460 618	1,113.00 1,031.00 1,743.00 740.00 677.00 1,776.00 3,024.00 940.00 791.00	2	855	1,101.00 2,264.00	5	492	2, 247. 00 3, 944. 00 2, 987. 00
Feb.		205	040.00	3	649	2,204.00	94	656 689 206	2 027 00
	4 5, 6	172	791.00	6	596	2,602.00	9	205	1 K/K (10)
	5	432	1,840.00	7	710	2, 873. 00	10	363	1,665.00 2,204.00 2,394.00
	<u>6</u>	68	343.00	8	611	2,552.00	12	511	2,204.00
	7	230 256	1,164.00	9	599 253	2,074.00	13	519 224	2,394.00 997.00
	9	169	784.00	11	1,148	4.596.00	15	102	888.00
	8 9 11	737	3, 389.00	13	770	3, 247. 00	16	853	388.00 2,744.00 4,499.00
	12	405 276	1,582.00	14	833	3,646.00	19	963	4, 499. 00
	13 14 15 16	276 179	791. 00 1,840. 00 343. 00 1,164. 00 1,119. 00 784. 00 3,389. 00 1,582. 00 1,031. 00 672. 00	15	300 497	2, 264, 00 2, 625, 00 2, 602, 00 2, 873, 00 2, 552, 00 2, 074, 00 902, 00 4, 596, 00 3, 247, 00 3, 646, 00 1, 152, 00 1, 964, 00	20	853 963 337 292	1, 424.00 1, 176.00
	15	201		17	570	1, 152.00 1, 964.00 2, 163.00 1, 727.00	22	117	520.00
	16	611	922.00 2,702.00	18	430	1, 727, 00	23	117 462	520.00 1,844.00 3,236.00
	18	166	719.00 1,127.00 785.00 1,781.00 531.00	20	265	1,070.00 5,786.00 1,398.00 1,806.00	24	745	3, 236.00
	19	228	1,127.00	21	1,430 352	5,786.00	26	570	2,420.00
	21	148 405	1 781 00	23	514	1 806 00	20	812 573	2,462.00
	22	130	531.00	25	525	1, 884. 00 1, 283. 00	30	465	2, 420.00 3, 798.00 2, 462.00 1, 950.00
	23	141	080.00	27	329	1, 283. 00	Sept. 3	419	1,776.00
	25	120 177	500.00	28	728	2,943.00	4	681	3, 138. 00
	18. 19. 20. 21. 22. 23. 26. 27. 28.	204	790.00	29	1,062 267	1 084 00	8	387 318	1,776.00 3,138.00 1,763.00 1,312.00
		307	790.00 889.00 1,260.00	3. 4. 6. 7. 8. 9. 10. 11. 13. 14. 15. 16. 17. 18. 20. 21. 22. 23. 25. 27. 28. 29. 30. 31. June 1. 3. 4. 4. 5. 5.	343	1,081.00	7	545	
Mar	. 1	129	605.00	June 1	353	1,420.00	9	545 235	1,082.00
	2	202	605. 00 847. 00 447. 00	3	864	3, 337. 00	10	572	1,082.00 2,586.00 1,456.00
	5 6 7 8	118 128	495.00	<b>2</b>	138	4, 084, 00 1, 086, 00 1, 081, 00 1, 420, 00 3, 337, 00 464, 00 2, 555, 00 1, 515, 00 1, 200, 00 4, 400, 00 2, 469, 00 1, 221, 00 3, 908, 00	112	293 529	2 400 00
	8	66	495.00 318.00	6	646	2, 555. 00	13	432	2, 400.00 2, 012.00
	7	199 106	792.00 468.00	7	405	1,515.00	14	401 352	1,368.00 1,689.00 3,029.00
	8	106	468.00	8	276	1,200.00	16	352 767	1,689.00
	11	205 204	947. 00 756. 00	10	1,067 736	2 000 00	18	427	1 1 726 00
	11	153	763.00	12	644	2, 469, 00	19	247	1,004.00 1,700.00 1,882.00
	13	197	763. 00 795. 00	13	316	1, 221.00	20	247 426	1,700.00
	14	356 121	1,590.00 523.00	14	626	2,346.00	21	453 563	1,882.00
	10	141	584.00	17	1,140 315	1, 260.00	23	625	2,381.00 2,655.00
	18	232	1, 102. 00	18	896	3 680 00	25	443	1, 457. 00
	19	232 220	1 1888 NO	19	441	1, 795, 00	26	443 204	
	15	150	I ROOM	8	343	1,200.00 3,680.00 1,795.00 1,336.00 1,035.00 2,217.00 1,114.00	27	253	1, 153.00
	21 22 23	196 229 122	869.00	21	285 532	1,035.00	28	574	1,153.00 1,942.00 1,295.00 3,057.00
	23		AND CO	24	287	1, 114 00	Oct. 1	298 745 872	3, 057, 00
	25		415.00	25	275	1, 103. 00	2:	872	1.414.00
	26		2, 114.00	26	242	078 00	4	304	1 1 2855 00
	26 27 28	140	565.00 817.00	27	275	1, 133. 00	5	223 160	977.00
	254	1 2005	1, 470.00	28	121 689	1, 133. 00 474. 00 2, 683. 00	ģ	912	977. 00 640. 00 8, 670. 00
	30	232	1,048.00	July 1	443	1,772.00	9	416	1,815.00
	1	259 205	942, 00 895, 00	2	285 170	1,772.00 1,214.00 745.00	9 10 11	317	1,552.00
Apr								168	716. 00

Detailed statement showing date of arrival, quantity, and value of pulp woods imported from the Dominion of Canada and entered under paragraph 699, at the port of Alburg, Vt., from January 1, 1907, to June 1, 1908—Continued.

Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
1907.	Cords.		1908.	Cords.		1908.	Cords.	
ct. 12	88	\$370.00	Jan. 2	362	\$1,665.00	Mar. 20	295	\$1, 162.0
14	385	1,498.00 1,491.00	8	815	4, 147. 00 1, 774. 00	21	502	1 1,968.0
15	842	1,491.00	4	400	1,774.00	23	966	3,834.0
16	419	1,827.00	6	105	553.00	24	1,570	6, 179. 0
17	169	696.00	7	463	2, 151. 00	25	758	2,952.0
18 19	245 83	1,188.00 149.00	8 9.	190 266	840.00 1,109.00	26 27	872 1,010	3,816.00 4,050.00
21	475	1,963.00	10	133	598 OO	27	1,010	2 500.0
22	123	862 00	i1	248	1 1 124 00 1	30	645 2, 537	2, 500. 0 9, 394. 0
23	371	1,782.00 2,385.00 883.00	13	72	248.00 1,624.00 1,212.00 2,729.00 704.00	28 30 31 Apr. 1	1.267	5, 076. 0
24	466	2, 385, 00	14	341	1.624.00	Apr. 1	1,267 769	3,056.0
	212	883. 00	15	308	1,212,00	2	477	1,895.0
26	129	584. 00 1, 477. 00	16	620	2, 729, 00	2 8	1,170	4,534.0
28	839	1,477.00	17	140	704.00	4	334	1.338.0
28 29 31	575	2,690.00	18	285	1,295.00 1,264.00 2,166.00	6	449	1,796.0
31	276	1 1.220 00 1	20 21	307	1,264.00	7 8	1,596	6, 288. 0
lov. 1	404	1,774.00	21	499	2, 166. 00	8	253	992.0
2	65	260.00	23	844	3, 265. 00	9	675	2, 670.0
<u>\$</u>	568	2,556.00 1,129.00 2,534.00	23	221	844.00	10	717	2, 767. 0
5	238	1,129,00	24	541	2,330.00 2,368.00	11	620	2, 370. 0
<u> 6</u>	510	2,034.00	25 27	594 576	2,308.00	18	704	2, 820.0
7 8	143 209	824. 00 910. 00	28	984	2,508.00 4,319.00	14 15	730 554	2, 920.00 2, 164.00
9	251	1 183 00	29	309	1,269.00	16	699	2, 104, 0
11	78	1, 183. 00 847. 00	30	600	2 447 00	17	330	1 220 0
12	195	797.00	81	671	2, 447. 00 3, 039. 00	18	257	1,000.0
12 13	177	744 00	Feb. 1	360	1, 435. 00	20	748	2, 796. 0 1, 279. 0 1, 008. 0 2, 923. 0
14	166	684. 00 431. 00 1,216. 00	3	235	920, 00	21 22	1,047	4, 158, 0
15	99	431.00	4	317	920.00 1,268.00	22	149	596.0
18	268	1,216.00	5	198	880.00	23	428	1,712.0
18 19 20 22	156	683. 00	7	580	2,240.00	94	277	1.110.0
20	222	977. 00	8	249	987.00	25	509	1,948.0
22	189	878.00	12	305	1, 180. 00	25 27 28	391	1, 135, 0
23	97	888.00	13	497	2,077.00 1,854.00 3,296.00	28	765	2, 958. 0
25	930	4,030.00	14	466	1,854.00	29	252	1,068.0
26	820	1,562.00 1,547.00	15	797	3,296.00	30	355	1, 420.0
27	325 276	1,064.00	17	1, 149 854	4,596.00	May 1	647	1,988.0
29 30	663	3, 111. 00	18 19	633	3, 589. 00 2, 619. 00	24	274 292	1.006.0
ec. 2	576	2,625.00	20	253	1,012.00	5	257	1,168.0 1,028.0
3	22	105.00	21	369	1,454.00	6	RAK	2, 390. 0
4	147	677. 00	22	254	1,454.00 1,016.00	7	545 262	1,048.0
5	329	1.771.00	24	476	1,897.00	7 8 9	160	640.0
6	142	624.00	25	531	2, 178, 00	9	225	900.0
7	201	980.00	26	739	1,897.00 2,178.00 2,960.00	11	206	824.0
9	659	8,114.00	27	765	3, 203.00	12	243	972.0
10	956	4,518.00 1,500.00	28	346	1,384.00	13 14	287	1,148.0
11	305	1,500.00	29	913	3,652.00	14	225	900.0
12 13	717	3,259.00	Mar. 2	649	2, 596. 00	15 16	11	44.0
14	327 550	1,637.00	ه. ا	1,962	7, 505. 00	16	677	2, 670. 0
	290	2,519.00 1,537.00 4,936.00	<b>!</b> •••••••	667	2, 552. 00 2, 292. 00	18	79	316.0
16 17	835	4 036 00	5 6	551 471	2, 292. 00	19 20	237	1,090.0
18	475	2,051.00	7	581	2, 299. 00	21	162 110	665. 0 458. 0
19	169	856.00	8	481	1 1 007 00	22	124	550. O
20	521	2,599.00	10	764	8, 128, m	23	100	470.0
21	655	3 360 00	11	1,202	4, 755, 00	25	52	225.0
23	487	2,289.00 4,749.00 2,298.00 5,591.00	12	394	3, 128. 00 4, 755. 00 1, 576. 00 996. 00 1, 758. 00 2, 310. 00	26	99	396.0
24	1,047	4,749.00	13	249	996, 00	27	153	630.0
26	486	2,298.00	14	430	1,758.00	28	87	348. 0
27	1,177	5,591.00	16	582	2,310.00	29	77	308. 0
28	42	186.00	17	801	3, 164. 00 2, 184. 00	30	56	224.0
80	770	3, 582. 00	18	556	2, 184, 00	l		1
31	464	2, 135. 00	19	847	3,390.00	1		l .

Detailed statement showing date of arrival, quantity, and value of pulp woods imported from the Dominion of Canada and entered under paragraph 699, at the port of Alburg, Vt., from January 1, 1907, to June 1, 1908—Continued.

#### RECAPITULATION.

Date of arrival.	Quantity.	Value.
anuary. 1907. Pebruary if arch	6,585 4,839 12,721 14,707	\$24,787.0 29,366.0 21,331.0 53,221.0 58,772.0 48,386.0
uity Angnist leptember October November	10,801 11,393 10,444 8,214	80,682.0 80,682.0 42,862.0 25,821.0 29,439.0 59,427.0
lannary Pebruary farch	11,286	47,592.0 45,697.0 85,522.0 59,721.0 22,488.0
Grand total	181,235	762,706.0

## SUBPORT OF EAST ALBURG, VT.

Statement of importations of unbleached chemical wood pulp at the subport of East Alburg, Vt., from January 1, 1907, to June 1, 1908.

Date of arrival.	Quantity.	Appraised value.	Country of origin.	Duties collected.	Additional par. 393.
1907.  December 3.  December 8.  Do  Do  Do  Do  December 20.  December 21.  Do  December 28.	Pounds. 44, 563 41, 393 42, 346 45, 606 45, 967 87, 151 79, 895 43, 036 76, 983	\$819. 00 776. 00 794. 00 832. 00 839. 00 680. 00 1, 503. 00 789. 00 1, 411. 00	Canadadodododododo	\$90. 12 74. 09 75. 80 81. 63 82. 27 66. 50 143. 00 77. 03 137. 80	\$5. 52 5. 10 5. 22 5. 62 5. 66 4. 58 9. 84 5. 30 9. 49
Total	456, 939	8, 443. 00		818. 24	56. 33

No importations filter masse, printing paper, or pulp woods.

### PORT OF SWANTON, VT.

Statement of chemical wood pulp imported through the port of Swanton, Vt., during the period from January 1, 1907, to June 1, 1908.

Date.	Quantity.	Appraised value.	Country.	Duty.	Additional duty under provisions to para- graphs 398 and 396.
1907.	Pounds.				1 .
January 1	42, 271	2844, 00	Canada	\$70, 45	25, 21
January 3	73,000	1, 157, 00	do	121, 67	8.99
January 5	38, 926	779.00	do	64, 88	4.80
Januar 7	36, 654	581.00	do	61.09	4.52
January 9	47, 326	878. 00	do	78. 88	5. 83
January 14	41,081	725.00	do	68. 47	5.06
February 1		1,909.00	do	183.08	13.54
February 8	78, 495	1,357.00	do	<b>33</b> 0. 83	9. 57
February 25	75, 300	1,249.00	do	135, 67	9. 29
March 23	35, 306	561.00	do	58. 84	4. 35
March 25	88, 540		do	147. 57	10.90
April 22	82, 168	1,762.00	do	<b>33</b> 6. <b>9</b> 5	10.12
May 17	79, 896	1,381.00	do	<b>133</b> . 16	9.84
May 24	36, 741	634.00	do	61. 24	4.53
June 7	52, 400	909.00	do	87. 33	6.46
November 11	36, 439	703. 00	do	60. 73	4. 49
Total	954,390	17, 128. 00		1,600.84	117. 50

NOTE.—Only chemical wood pulp imported. No importations of printing paper or pulp woods.

## PORT OF ST. ALBANS, VT.

Importations of wood pulp, mechanically ground, imported from Canada and entered at the port of St. Albans, Vt., between January 1, 1907, and June 1, 1908.

Date.	Quantity.	Value.	Duty.	Additional.	Total.
1907.	Pounds.				
January 7	24,000	\$108.00	<b>\$20.00</b>	23.70	\$23, 70
January 9	46,000	207.00	38, 33	7.03	45.36
January 30		113.00	20, 83	4. 97	25, 80
Do		124.00	22, 92	5.65	28. 67
Do		135, 00	25.00	5. 27	30. 27
Do		113.00	20, 83	3.55	24.38
February 17.	20,000	90.00	16.67	2 40	19.07
February 19	30,000	135.00	25.00	4.88	29. 88
February 20	30,000	135.00	25.00	1 28	28. 28
February 21	25,000	113.00	20. 83	6.13	26. 96
September 27	51.242	410.00	42.70	6.41	49.11
October 2.	31,237	250.00	26.03	8.90	29. 92
October 7	35,700	296.00	20.03	4.46	
O00000 /	35,700	290.00	20. /0	1 2 20	34. 21
1908.	1	i		l 1	
March 17	148,940	1,651.00	124, 12	10.72	134, 84
March 26	60,000	270.00	50.00	13.46	63. 46
	00,000	2.0.00	30.00	20.90	33. 10
Total	609,619	4,150,00	508, 01	85, 81	593, 92

No filter masse, or filter stock, was imported from Canada and entered at the port of St. Albans, Vt., between January 1, 1907, and June 1, 1908.

Importations of chemical wood pulp, unbleached, imported from Canada and entered at the port of St. Albans, Vt., between January 1, 1907, and June 1, 1908.

Date.	Quantity.	.Value	Duty.	Additional duty.	Total.
1907.	Pounds.				
April 23	37,538	\$601.00	<b>862.</b> 56	\$4.63	\$67.19
April 25	41,340	834.00	68. 90	5.09	73.99
May 2 May 8	35,346 33,073	563. 00 522. 00	58. 91 55. 12	6.31 4.00	65. 22
May 11	42,122	845.00	70. 20	5. 19	50. 12 75. 39
May 15	38,394	609.00	63.92	4.73	68. 72
May 23	43,722	854.00	72. 87	5.39	78. 26
May 26. May 27.	46,835 40,646	917. 00 801. 00	78.06 67.74	5. 77 5. 01	83. 83
May 20	46,487	916.00	77.48	5.73	72. 75 83. 21
May 30 May 31	42,268 64,434	832.00	70. 45	5.21	75. 66
June 3	64, 434	911.00	77. 39	5. 72	83. 11
Do	47, 135	927.00	78.66	5. 82	84. 48
June 4	46,882	919.00	78. 14	5.78	83. 92
Do	47,373 43,800	934.00 877.00	78. 96 73. 00	5. 84 5. 40	84. 80 78. 40
Do	40, 151	792.00	66. 92	4.95	71. 87
June 13.	47,677	959.00	79.46	5.87	85. 33
July 6	43,354	868.00	72.26	5.34	77.60
July 14	43,506	841.00	72. 57	5. 36	77.87
July 21	45,591	893.00	75. 99	<b>5</b> . 62	81. 61
Do	45,945	901.00 927.00	76. 58 78. 64	5. 66 5. 81	82. 24
Do	47, 185 130, 543	2,570.00	217.57	16.08	84. 45 233. 65
Do	45,723	893.00	76. 21	5.63	81. 84
July 25	48,906	950.00	81. 51	6.03	87.54
August 8	53,940	1,074.00	89. 90	6.65	96. 55
August 14.	39, 493	772.00	65. 82	4.87	70.69
August 13	85,343	1,665.00	142, 24	10.52	152. 76
August 15	44,740 47,745	961.00 950.00	74. 57 79. 58	5. 51 5. 88	80. 08 85. 46
August 28	44,316	948.00	73. 86	5.46	79. 32
August 28. September 12	44,212	880.00	73.69	5. 45	79. 14
October 18	44,098	866.00	73. 50	5.43	78. 93
Do	45,778	942.00	76. 30	5.64	81.94
October 19.	83,270	1,624.00	138. 78 63. 47	10.26	149.04
October 29.	38,079 38,172	744.00 748.00	63. 62	4.69 4.70	68. 16 68. 32
Do	25,614	696.00	59.36	4.39	63. 75
Do	38,543	753.00	64.24	4.75	68.99
October 31	37,510	733.00	62. 52	4.62	67. 14
Do	39,092	765.00	65. 18	4.82	69. 97
November 1. November 23.	36, 150	706.00	60. 25	4.45	64.70
Do	69,648 34,010	1, 276. 00 616. 00	116.08 56.68	8.58 4.19	124. 66 60. 87
Do November 25	74,502	1,453.00	124. 17	9. 18	133. 35
December 4	41,795	747.00	69, 66	5. 15	74. 71
December 9	34,598	630.00	57.66	4. 26	61. 92
Do	81,824	1,597.00	136. 37	10.08	146. 45
December 24.	44,571	815.00	74. 29	5.49	79.78
1906.					
January 8.	40,013	758, 00	66.69	4.93	71. 62
Do	41,780	741.00	69.63	5. 15	74. 78
January 14. February 13. February 14.	40,001	713.00	66. 67	4.93	71.60
February 13	36,968	651.00	61. 61	4.55	66. 16
February 19.	39,302 79,700	749.00 1,423.00	65. 50 132. 83	4. 84 9. 82	70. 34 142. 65
February 24	40,981	763.00	68. 30	5.05	73.35
February 24 March 17	113,736	1,905.00	189. 56	14.01	213. 57
April 6	37,071	645.00	61.79	4.57	66. 36
April 13.	43,043	754.00	71.74	5.30	77.04
May 1 May 24	21,450 39,767	261.00	85.75	8.83	39. 58
may #1	89,767	680. 00	66.28	4.90	71. 18
Total	2,958,932	56, 460. 00	4,948.25	368, 87	5,317.96

Importations of printing paper imported from Canada and entered at the port of St. Albans,
Vt., between January 1, 1907, and June 1, 1908.

#### VALUED LESS THAN 2 CENTS PER POUND.

Date.	Quantity.	Value.	Duty.	Additional duty.	Total.
1907.	Pounds.				
June 18	23,963	8628.00	\$101.89		
June 22	41,570	769.00	124.71		
June 25	اسمفنسفا	686,00	111.26		
June 26	46,399	858.00	139, 20		
June 28	44,663	804.00	133. 99		
July 1	43,760	788.00	131. 28		
		858. 00	90.55		
July 3		921.00	153.55		
July 7			114.57		
July 25	38,190	707.00	114.07		• • • • • • • • •
Total	366,998	6,719.00	1,101.55		

#### VALUED ABOVE 4 CENTS AND NOT ABOVE 5 CENTS PER POUND.

1907. January 11	Pounds. 375	\$19.00	<b>\$3</b> . 00	\$0.09	\$3.00
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Importations of pulp wood imported from Canada and entered at the port of St. Albans, Vt., between January 1, 1907, and June 1, 1908.

	Date.	Quan- tity.	Value.	Date.	Quan- tity.	Value.	Date.	Quan- tity.	Value.
	1907.	Cords.		1907.	Cords.		1907.	Cords.	
an.	9	10	\$50.00	Mar. 14	10	\$40.00	Apr. 17	12	\$48.0
	16	10	50.00	14	124	<i>5</i> 0. 00	19	10	40.0
	30	12 12	52.00	15	. 9	36.00 40.00	19	20	80. 0 40. 0
	30	12	82.00 48.00	17	10 8	32.00	19	10	35.0
	30	15	60.00	18	10	40.00	19	11	44.0
'eb.		16	64.00	20	10	40.00	20	10	40.0
ψD.	8	101	45.00	23	10	45.00	21	20	80.0
	8	10	40.00	24	10	40.00	21	16	64.0
	8	12	48.00	27	iŏ	40.00	21	20	80.0
	10	84	36.00	28	8	32.00	21	10	40.0
	10	103	40.00	28	10	40.00	22	9	36.0
	15	20	80.00	28	9	36.00	22	20	80.0
	19	16	64.00	29	8	32.00	23	9	36.0
	21	10	40.00	29	10	40.00	23	10	40.0
	21	24	96.00	29	20	80.00	23	12	52.0
	22	10	40.00	29	10	40.00	25	10	40.0
	24	16	64.00	30	8	32.00	25	19	95.0
	24	9	36.00	81	8	32.00	25	12	60.0
	24	13	52.00	31	24	96.00	25	10	42.0
	24	13	52.00	31	12	48.00	26	20	80.0
	24	10	40.00	31	15	60.00	26	20	80.0
	24	11	44.00	31	10	40.00	28	20	80.0
	24	13	52.00	Apr. 1	10	40.00	26	20	80.0
	24	13	52.00	2	10	40.00	26	18	90.0
	25	10	40.00	2	10	40.00	26	20	80. (
	27	24	96.00	2	12	48.00	26	10	40.0
	27	10	45.00	3	10	40.00	27	10	40.0
	28	10 12	40.00 48.00	8	24 12	96.00 48.00	28 28	20 10	100. ( 50. (
	28	12	38.00	3	10	40.00	28	18	90.0
lar.	28 2	16	64.00	g	10	40.00	28	20	80.0
Lar.	. <i>2</i>	10	45.00	3	10	40.00	28	10	40.
	3	16	80.00	4	10	40.00	28	20	80.
	3	10	40.00	4	10	40.00	29	20	80.
	3	8	32,00	12	10	40.00	29	18	90.
	5	و	36.00	12	20	80.00	29	ĩõ	40.
	6		45.00	15	10	40.00	29	24	96. (
	5	20	90.00	15	20	80.00	29	20	80.
	9	8	32,00	16	10	40.00	30	10	40.
	9	10	40.00	16	īŏ	40.00	30	20	80. (
	12	īŏ	40.00	16	12	48.00	May 1	10	40.
	12	īŏ	45.00	16	18	72.00	i	24	96.
	12	10	45.00	16	12	48.00	1	10	40.
	12	10	45.00	17	10	40.00	1	20	80.
	12	10	45.00	17	20	80.00	2	10	40.
	12	10	40.00	17	10	40.00	1 2	l 10	40.

Importations of pulp wood imported from Canada and entered at the port of St. Albans, Vt., between January 1, 1907, and June 1, 1908—Continued.

	Date.	Quan- tity.	Value.	Date.	Quan- tity.	Value.	Date.	Quan- tity.	Value
	1907.	Cords.		1907.	Cords.	240.00	1907.	Cords.	
Lay	2	10 10	\$40.00 40.00	May 26	10	840.00	June 28	10	\$50.0
	2 2	10	40.00	26	10 20	80. 00 80. 00	July 1	10 10	50. 0 50. 0
	2	10	50.00	26	10	40.00	1	20	80.0
	2	10	40.00	26	10	40.00	7	10	85.0
	2	19	95.00	26	10	40.00	7	14	69.0
	2	10	50.00	26	10	40.00	7	20	80.0
	1	10	40.00	30	10	40.00	7	10	55.0
	1	10	40.00	30	10	50.00	7	10	50.0
	4	18	90.00	30	20	80.00	7 7 and 8	10	40.0
	4	10	40.00	80	20	80.00	7 and 8	20	100.0
	5 4 and 5	20	80.00	30	10	40.00	8	10	50.0
	4 and 5	20	80.00	30	9	47.00	10	10	55.0
	5	20 10	80.00	30	12	59.00	10	9	47.0
	Į	10	40.00 40.00	30 30	10 20	40.00 80.00	10	10	50.0
	5 5	10	45.00	30	10	45.00	10 10	10 10	40.0 40.0
	5	10	50.00	31	14	56.00	i1	18	99.0
	6	18	90.00	June 1	9	36.00	ii	10	55.0
	6	10	50.00	2	20	100.00	11	10	55.0
	6	20	80.00	2	10	50.00	13	9	36.0
	6	20	80.00	2	20	100.00	14	10	55.0
	6	20	80.00	2	20	80.00	15	10	55.0
	7	12	48.00	2	10	40.00	16	18	99.0
	7	113	46.00	2	10	40.00	18	8	32.0
	9	9	45.00	2	.9	47.00	18	16	64.0
	9		45.00	3	10	40.00	18	10	55.0
	9	20 10	80.00	3	10 12	40.00	23	16	64.0
	9	20	40.00 80.00	3 3	18	59.00 94.00	23	10	50.0 90.0
	9	20	80.00	8	12	59.00	23	20 10	55.0
	10	10	40.00	3	10	45.00	23	12	66.0
	10	9	36.00	3	10	50.00	23	12	59.0
	10	10	40.00	6	10	40.00	23	14	77.0
	10	10	40.00	6	10	50.00		12	66.0
	12	9	45, 00	6	9	45.00	23	12	66.0
	12	10	40.00	6	10	40.00	23	9	49.0
	13	20	80.00	7	10	40.00	23 23 23	9	47.0
	13	9	45.00	9	20	80.00	24	10	40.0
	13	9	45.00	9	20	80.00	25	40	220.0
	15 16	10	40.00	ρ	19	95.00	25	12	66.0
	16	24 20	96. 00 80. 00	11	9 12	45. 00 59. 00	25	12	66.0
	16	10	40.00	13	10	40.00	25 25	10	55. 0 36. 0
	16	10	40.00	12	ğ	36.00	25	10	55.0
	16	10	40.00	13 14	10	40.00	25	10	50.0
	16	20	80.00	14	154	62.00	25	ő	49. 0
	16	10	40.00	10	20	80.00	25	9	49.0
	16	10	50.00	17	14	69.00	1 26	14	77.0
	16 17	10	40.00	17	12	59.00	26	14	77.0
	18	10	40.00	17	17	83.00	26	12	66.0
	15	20 10	80.00	17	17	83 00	26	10	50.0
	18	10	50.00	17	10	51.00	26	10	50.0
	18 18 19	10	40.00 50.00	17 17	17 12	83.00 59.00	28 28	12 14	66. ( 77. (
	19	20	80.00	17	10	40 00	28	14	77.0
	19. 19. 19.	16	64.00	17	19	36.00	28	14	77.0
	19	10	40.00	17	10	45.00	28	9	49. (
	19	10	45.00	17	9	36, 00	28	9	40.
	19	10	40.00	18	9	45.00	30	14	77.
	17	20	80.00	18	10	50.00	30	12	66.
	19	20	80.00	19	14	69.00	30	12	66.
	19	20	80.00	19	18	94.00	30	9	49.
	19 20	20 12	80.00	19	20	80.00	30	14	77.
	20	10	60.00 40.00	19 20	10	40.00 69.00	30	9	<b>49.</b> <b>49.</b>
	<b>2</b> 0	20	80.00	20	14	36.00	30 30	12	66.
	21	10	50.00	20	20	100.00	30	12	66.
	22		40.00	21	10	40.00	30	12/	66.
	22	8	82.00	21	20	80.00	30	12	66.
	22	8	32.00	21	10	50.00	30	15	75.
	22	8	32, 00	21	10	50.00	30	8	32.
	22	1 10	40.00	22	10	56.00	30	9	49.
	23	1 10	40.00	26	20	100.00	30	9	49.
	23	l 10	50.00	27	20	80.00	1 200	12	66.
	24	10	40.00	27	20	80.00	30	ă	49.
	24	20	80.00	27 27	20	80.00	90	.9	49.
	24	20	80. CO	27	20 19	80.00 95.00	30	14	77. 32.
	24	8	45.00 32.00	27 27 28	20	95.00 100.00	31	14	77.
	<del></del>	10		66	10	40.00	A 110 1		26.

Importations of pulp wood imported from Canada and entered at the port of St. Albans, Vt., between January 1, 1907, and June 1, 1908—Continued.

1	Date.	Quan- tity.	Value.	Date.	Quan- tity.	Value.	Date.	Quan- tity.	Value
	1907.	Cords.	\$36.00	1907.	Cords.	977.00	1907. Aug. 25	Cords.	000
ų.	1	9	36.00	Aug. 19	14	\$77.00 77.00	25	14	\$66. (
	i	10	50.00	19	9	49.00	25	10	85.
	1	10	55.00	19	9	49.00	25	10	55.
	5	9	49.00	19	12	<b>66. 0</b> 0	25	10	60.
	5	12	66.00	19	9	49. 00	25	10	60.
	5	14	77.00	19	12	66.00	25	10	60.
	5	14	77.00	19	12 12	66.00	25 25	10	60.
	5	12 14	66.00	19 19	12	66. 00 66. 00	25	10 10	60. 6
	6	14	77.00 77.00	19	14	77.00	25	10	55.
	6	12	66.00	19	12	66.00	25	10	55.
	6	14	77.00	19	12	66.00	25	10	55. (
	6	14	77.00	19	12	66.00	25	10	55.
	6	9	49.00	19	9	48.00	25	10	55.
	6	12	66.00	19	9	49.00	25	.9	50.
	6	9	49.00	19	12	66.00	26	12	66.
	6	12 12	66.00	19 19	9 12	49.00	26	14	77.
	6 6	12	66.00 66.00	19	14	66.00 77.00	26 26	14	77. 77.
	6	12	66.00	19	12	66.00	26	12	66.
	6	12	66.00	19	12	66.00	26	9	49.
	6	14	77.00	19	12	66.00	26	14	77.
	6	12	66.00	19	12	66.00	26	10	55.
	6	12	66.00	19	9	49.00	26	9	49.
	6	14	77.00	19	9	49.00	26	9	49.
	6	14	77.00	19	12	66.00	26	9	49.
	6	9	49.00	20	10	60.00	26	8	44.
	6	12	66.00	20	10	60.00	26	14	77.
	6	14	77.00	20 21	9	49.00	26	12	66.
	6 9	10 10	40.00 55.00	21	10 10	55. 00 55. 00	26 26	10 12	55. 66.
	9	10	55.00	21	10	55.00	26	12	66.
	9	10	55.00	22	12	66.00	26	10	55.
	9	10	55.00	22	9	49.00	26	10	55.
	9	10	55.00	22	12	66,00	26	iŏ	55.
	9	10	55.00	22	12	66.00	26	10	55.
	9	10	55.00	22	9	48.00	26	10	55.
	9	12	66.00	22	12	66.00	26	10	55.
	9	12	66.00	22	10	55.00	26	10	55.
	9	12	66.00	22	12	66.00	27	10	50.
	9	10	55.00	22	12	66.00	27	14	77.
	9 10	10 10	55.00 55.00	22 22	14	49. 00 77. 00	27	14	77.
	11	12	66.00	22	12	66.00	27 27	14 14	77.
	11	14	77.00	22	14	77.00	27	12	66.
	11	12	66.00	22	12	66.00	27	12	66.
	11	14	77.00	22	12	66.00	27	12	66.
	11	9	49.00	22	12	66.00	27	12	66.
	11	9	49.00	22	12	66. 00	27	12	66.
	11	9	49.00	22	12	66.00	27	12	66.
	11	9	49.00	22 22	9	48.00	27	12	66.
	11	10	49.00	22	10 10	55.00 55.00	27	12	66.
	11 11	10	55.00 55.00	22	11	61.00	27	12 12	66. 66.
	11	10	55.00	22	10	55.00	27	9	49.
	12	12	66.00	22	10	55.00	27	10	80.
	12	12	56.00	22	10	55.00	27	10	55.
	14	12	66.00	22	10	55.00	29	10	55.
	14	14	77.00	23	9	50.00	29	10	55.
	14	14	77.00	23	12	66.00	29	10	55.
	14	12	66.00	24	10	50.00	29	12	66.
	14	12 12	66.00	25 25	14	77.00	29	9	50.
	14 14	14	66.00 77.00	25	9 14	49.00	30	10	55.
	14	12	66.00	25	14	77.00 77.00	31	14	77.
	14	12	66.00	25	12	66.00	31	14 12	77. 66.
	14	14	77.00	26	12	66.00	31	12	66.
	14	14	77.00	25	14	77.00	31		66.
	14	9	49.00	25	9	50.00	31	9	49.
	14	9	49.00	25	12	66.00	31	9	49
	14	10	40.00	25	9	49.00	1 31		49. 60.
	14	10	55.00	25 25 25	14	77.00	31	10	60.
	14	10	55.00	25	12	66.00	Sept. 1	12	72.
	14	10	55.00	25 25	14	77.00	1	10	55.
	15	10	55.00	25	12	66.00	31 Sept. 1	10	55.
	16	10	55.00	20	14	77.00		10	1 5K
	16 19	10 10	55.00 55.00	25 25 <b>25</b> <b>25</b>	14 12	77.00 66.00	1	10	55.
	40	12	66.00		12	49.00	2 2	12	96.

Importations of pulp wood imported from Canada and entered at the port of St. Albans, Vt., between January 1, 1907, and June 1, 1908—Continued.

Date.	Quan- tity.	Value.	Date.	Quan- tity.	Value.	Date.	Quan- tity.	Value.
1907. Sept. 2	Cords.	\$77.00	1907. Sept. 9	Cords.	\$66.00	1907. Sept. 22	Cords.	*** ***
2	12	66.00	9	14	227 00 1	22	10	\$65.00 55.00
2	12	66.00	9	9	80.00	22	10	55.00
2	9	49,00	9	12	66.00	22	10	55.00
2	9 12	49.00 66.00	9 9	12 10	66.00	22	10	55.00
2	12	66.00	9	12	66.00	22 23	10 12	85.00 66.00
2	10	55.00	9	12	86.00	23	12	66.00
2	10	55.00	9	12	80. 00 66. 00 68. 00 68. 00 66. 00 66. 00	23	14	66.00 77.00
2	10 10	55.00 55.00	9	9 12	50.00 66.00	23	. 9	49.00
2	10	55.00	9 9	10	55.00	23 23	12 12	66.00 66.00
2	10	55.00	10	10	60.00	23	12	66.00
3 3	9 12	49.00	10	10	55.00	23	12	66.00
8	9	66.00 50.00	10 11	10 10	55.00 65.00	23 23	14	77.00 49.00
3	10	55.00	12	iŏ	55.00	23	12	66.00
3	10	55.00	12	10	55.00	23	10	55.00
4	10 10	55.00 55.00	12	10	55.00	23 23	12 12	66.00
4	10	55.00	12 13	10	49.00	23	12	66.00 66.00
4	10	85.00	13	12	66.00	23	9	49.00
4	10	55.00	13	12	66.00	24	12	66.00
4	10 10	55.00 55.00 55.00	13 13	14 12	55. 00 55. 00 55. 00 55. 00 66. 00 67. 00 67. 00 68. 00 67. 00 68. 00 77. 00 68. 00 77. 00	24 24	14	77.00
4	10	55.00	13	14	77.00	94	12	49. 00 66. 00
4	10	55.00	13	12	66,00	24	10	55.00
4	12 12	66. 00 66. 00	13 13	10 10	55.00	24 24	10 10	88.00 88.00
4	12	66.00	13	10	55.00	26	12	66.00
4	12	66.00 66.00 49.00 77.00	13	14	77.00	26	9	49.00
<b>4</b>	. 9	49.00	13	12	66.00	26	12	66.00
4	14 14	77.00	13 13	14	50.00 77.00	26 26	12 14	66.00 77.00
4	12	66. 00 49. 00	14	10	55.00	26	12	66.00
4	9	49.00	15	10	50.00	26	14	66.00 77.00 85.00
4	12	49. 00 66. 00 49. 00	15 15	10 10	50.00	26 26	10 10	85.00
4	9	49.00	15	iŏ	50.00 50.00	26	10	\$5.00
4	12 12	66. 00 66. 00	] 15	10	I 50.00 I	26	10	85. 00 85. 00 85. 00 85. 00
<b>7</b>	12	77.00	15 15	10 10	50.00 60.00	26 26	10 10	55.00
4	12	66.00	16	9	50,00	26	10	85. 00 85. 00 60. 00
4	14	77. 00 50 00	16	12	66.00	26	10	60.00
4	12	66 00	16 16	9	50.00 50.00	26 26	10 10	85.00 88.00
4	14	77. 00	16	12	50. 00 66. 00 66. 00	26	10	55. 00 77. 00
4	12	66.00	16	12	66.00	29	14	77.00
<b>4</b> 5	10 10	55. 00 55 00	16 16	9 14	50. 00 77. 00 66. 00 66. 00	29 29	14 14	77.00 77.00
5	ĩŏ	55.00	16	12	66.00	29	14	77.00
5	10	55.0C	16	12	66.00	29	14	77.00
5 5	10 10	55.00 55.00	16	12	66.00	29	12 12	77.00 77.00 66.00 66.00
6	10	45.00	16 16	12	66.00	29 29	12	
7	9	49.00	16	12	66.00	29	12	66, 00
7 7	12 9	66. 00 50. 00	16	10	85.00	29 29	12	66. 00 66. 00 66. 00
7	9	50.00	20 20	12 14	66.00 77.00	29	12 12	66.00
<u>7</u>	9	49.00	20	12	66.00	29	12	66.00
7 7	. 9	49.00	20	12	66.00	29	9	49.00
7	10 14	55. 00 ' 77. 00	20 20	12 10	66.00 55.00	29 29	10	49.00 55.00
7	14	77.00	20	iö	55.00	29	10	85.00
7	14	77.00	20	10	55.00 55.00 50.00 55.00	30	10	50.00
7	14 12	77. 00 66. 00	20 20	10 10	55.00	30 30	10 10	55.00 60.00
7	12	66.00	20	10	<b>5</b> 5. 00	Oct. 2	14	77.00
7 7	10	85.00	20	10	85.00	2	10	55.00
7	10 10	85.00 56.00	20 20	12	66. 00 49. 00	2	10 10	55.00 55.00
7	- 10	55.00	1 20 1	12	66.00	2	10	55.00
7	10	55 00	20	12	66.00	3 3	10	50.00
7 7	10 10	55 00 55 00	20 20	12 10	66.00 60.00	4	· 10	50.00 50.00
7	9	50 00	20	10	60.00	4	10	50.00
9	10 12	55. 00 66. 00	20	18	68.00 77.00	4	10	55.00
9	12	66.00	22 22	. 9	49.00	4	10 10	55. 00 55. 00
9	14	77.00	22	-10	40.00	5	14	

Importations of pulp wood imported from Canada and entered at the port of St. Albans, Vt., between January 1, 1907, and June 1, 1908—Continued.

	Date.	Quan- tity.	Value.	Date.	Quan- tity.	Value.	Date.	Quan- tity.	Value.
	1907.	Cords.	\$77.00	1907. Nov.24	Cords.	960 AA	1908. Feb. 24	Cords.	eer ~
Oct.	5 5	14	49.00	U 04	10 10	\$60.00 55.00 60.00	25	50	275.00
	5	14	77.00	30	10	60.00	25	50 10	55.00
	5 5 5 5	.9	49.00 77.00 49.00 68.00 77.00	30 2 3 3 5	10	50.00 50.00 50.00	25	10	\$65. 00 275. 00 55. 00 55. 00 55. 00 55. 00 55. 00 55. 00 55. 00 55. 00 55. 00
	5	12	77.00	3	10 10	80.00	25 95	10 10	55. 00 65. 00
	5	14	49. 00 66. 00 49. 00 66. 00 66. 00	8	10 18	50.00 99.00 50.00 75.00	25	10	55. 00
	5 5	· 12	66.00	5	18	99.00	25	10	55.00
	5	12	49.00		10	50.00	25	10 10	55.00
	5	12	66.00	10 10 10	13 12	66.00	25	10	55 00
	5	12 12	66. CO	10	10 10	66.00 45.00 55.00	25	10 10	55.00
	5	14	77. GO 49. GO	11 11 12	10	55.00	25	12	48.00
	5	14	77.00	12	15 10	83.00 55.00	25	10 11	55.00 E0.00
	5	10	55.00	14	10	60.00	25	8	29.00
	5	10	77. 00 55. 00 40. 00	14 14 14	9 10 12	55.00 60.00 89.00 65.00 75.00 76.00	25	8 104	53, 00
	<u>7</u>	10	55. 00 50. 00 60. 00 50. 00	14	10	65.00	25	15 13 11 <del>1</del>	75.00 65.00 55.00 45.00
	7	10 10	60.00	14	12	75.00	25	13	65.00
'	7	10	50.00	14	12	66.00	25	10	45, 00
	7	10 14	50.00 77.00	14 14 17 19	12	75.00 85.00	25	9	45.00 165.00
	7	14	77.00	19 19	10 10	55.00 50.00	25. 25. 25. 25. 25. 25. 25. 25. 25. 25.	10 9 80 10 10	165.00
	10	14	49.00 77.00 66.00 77.00	19 19 20	15	84.00	20	10	55.00 55.00
	10 10 10	12	66.00	20	15 10	84. 00 60. 00	26	10	55. 00
	10	12 14	77.00	I 20	10	60.00	26	10 10	55.00
	10 10 10	14 14 12	77.00	23 23	12 10	72.00 60.00	26	10	55.00
	10	12	77.00 60.00	۵	10	00.00	20	10 10	55. OO
	10	. 10	55.00	1908.	ł		26	10	55. 00
	12 12 13	10	60. 00 55. 00 55. 00	Jan. 6 14	10	65.00 65.00 45.00	27	40 10	165. 00 55. 00 55. 00 55. 00 55. 00 55. 00 55. 00 220. 00
	12	10 10 10	50.00	14	13	45.00	27	10	55.00
	13	10	50.00	14	9	45.00	27	10 10	55. 00
	13	10	50. 00 50. 00 50. 00 50. 00	16	9	45.00	27	10	55.00
	13	10	50.00 50.00	18	10 10	55.00	27	10 10	45.00
	13 13	10 10 10 10	50.00	14	1 10	45. 00 55. 00 55. 00 55. 00 55. 00 60. 00	27	10	55.00
	13 13 13	10	50.00 50.00	18	10 10 9	55.00	28	10 40 80 10	220.00
	13	10 10 10	50.00	20	9	35.00	28	30	165. 00
	13	10 10	50.00 50.00	21	10 10	50.00 50.00	28	10 10	60.00
	13 13 13	10	50.00	25	1 0	45.00	28	10	55 00
	13	10 10 10	50.00 50.00 50.00	25	10	45. 00 50. 00	28	10 10	<b>55. 00</b>
	13	10	60.00	81	10	65. 00 60. 00 85. 00 40. 00 50. 00	28	10	<b>85. 00</b>
	13 13	10 10 10	50.00 50.00 50.00	Feb. 1	12 11	85.00	28	10 10	55. 00 55. 00
	13	iŏ	50.00	1	-8	40.00	28	10	55. OO
	15 15 15	10 10 10 12	1 50.00 1	1 10 11:		50.00	1 Mar. 2	10 10 10	80.00
	15	10	50.00 50.00	10	10 10	70.00	2 2 2 2	10	50.00
	10	12	66.00	11	1 30	50.00	2	10 10	80. 00 80. 00
	16	14	77.00	11	10	50.00	2	10	50.00
	16 16 18	14 14	66.00 77.00 77.00 90.00	11 11 11	10 10 10	50.00 50.00 50.00 50.00 50.00	2	10	55.00 55.00 55.00 55.00 55.00 165.00 165.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00
	10 18	14	80.00 65.00	11	10	50.00 50.00	2 2	10 10	55. OO
	18 18 18	10 12 14	55.00 72.00 77.00 45.00 50.00	11	10	80.00	2	10	55. 00
	18	14	77.00	15	10	50.00	2	10	88.00
		10	45.00	17	10	50.00	2	10	85.00
	19 20 21	10	50.00	17 17 17	10	55.00	3	10 10	80.00
	21	10	55.00	17	10 10	60.00	2	10	80.00
	<b>29</b>	10 10 10 12 10	50.00 55.00 55.00 55.00	18	10 20 10 11	55. 00 55. 00 60. 00 55. 00	2	10 10 10	80.00
	24	10	55.00	18	20	110.00 45.00	2	10 10	50.00
	24 25	12	55.00 66.00	19	l ii	55.00	2	10	50. 00
	26	10	55.00 55.00	17. 18. 18. 19. 19. 19. 19.	10	45.00 55.00 65.00 60.00	2	10 10	<b>55. 00</b>
	26 29	10 10 10 10	85.00	19	10 10	60.00	3	10	55.00
	29 29	10	55. 00 50. 00		10	80.00	3	10	55. 00 65. 00
	29	10	80.00	19	10	60.00 60.00 55.00	3	- 10 - 10 10	55.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 55.00 55.00 55.00 55.00 55.00 55.00
Nov.	1	9	50.00	19 19	50 10	275.00	3	10	55.00
	·····	10	55.00 56.00	20 20 22	10 10	60.00	3	10 10	55.00
	9	14 12	66.00	22	10	50.00 55.00	3	10	66, 00 65, 00
	11	10 10	60. 00 55. 00	22	10 10	55. 00 55. 00	8	10	55. 00 55. 00 55. 00 55. 00
	16	10	55.00	22	10	85.00	3	10 10 10	55.00
	19 <b>2</b> 3	10 10	60.00 55.00	22 24	10 10	88. 00 68. 00	ğ	10	55. QQ
	35i	10	55.00	24	10	66.00	3	10	84

Importations of pulp wood imported from Canada and entered at the port of St. Albans, Vt., between January 1, 1907, and June 1, 1908—Continued.

	Date.	Quan- tity.	Value.	Date.	Quan- tity.	Value.	Date.	Quan- tity.	Value.
V	1908.	Cords.	800 00	1908.	Cords.		1908.	Cords.	
Mar.	3 3	10 10	\$55. 00 55. 00 55. 00 55. 00 55. 00 55. 00 55. 00 55. 00 55. 00 60. 00	Mar. 17 17 17 17 17 17 17 17 17 19 19 19	10 10	\$40.00 50.00 50.00 55.00 55.00 50.00 60.00 40.00 65.00 60.00	Mar. 26	10 10	\$55.00
	3	10	55.00	17	10	50.00	20	10	55.00
	3	10	55.00	17	10	50.00	26	10	65.00
	3	10	55.00	17	10 10 10	55.00	26.	10 10	65 00
	8	10	55.00	17	10	50.00	26	10	65.00
	8	10	55.00	17	10 10 10	50.00	26	10	55, 00
	<u> </u>	10	55.00	17	10	60.00	26	10 10	60. UO
	3	10	55.00	19	8	40.00	26	12	72.00
	4	10	55.00	19	.8	40.00	26	9	41.00
	4	10 10	(0.00	19	10 10	65.00	26	11	50.00
	7	10	55. 00 60. 00	10	10	55.00 55.00 55.00 55.00 55.00 55.00	27	10	55.00
	6	12 10 10	55.00 55.00 165.00 70.00 70.00	19	10	55.00	27	10	85.00
	6	10	55 00	19	10 10	55.00	27	10 10	55.00
	6	30 l	165.00	19	10	65.00	27	10	55 00
	6	30 10 10	70.00	19	10 10	55.00	27	10	55, 00
	6	10	70.00	19	10	55.00	27	10	55, 00
	6	10	50.00	19	10	50.00	27	10 10	55.00
	7	10	55.00	19	10	50.00	27	10	55.00
	7	10	50.00	19	10 10	50.00	28	10 10 10	55.00
	7	10	85.00	19	10	55.00	28	10	55.00
	7	10	55.00 50.00 55.00 55.00	19	10	55.00	28	10	55.00
	7	10 10	55.00	19	10 10	50.00 50.00 55.00 55.00 50.00 50.00	29	12 12	72.00
	3	10	85.00	21	10	50.00	29	12	72.00
	<b>4</b> ······	10	40.00	21	10	50.00	29	10	30.00
	7	10	80.00	91	10	50.00	29	70	55.00
	7	10	60.00	21	10	50.00	20	10	55.00
	9	10	50.00	21	10 10	50.00 50.00 50.00	30	10 10 10	50.00
	9	10 10	50.00	21	10	50.00	30	10	50.00
	9	10	50.00	21	63	34.00	30	10	50, 00
	9	10	50.00	21	10	55.00	31	10 10	55.00
	9	10	55.00	21	10	55.00	31	10	55.00
	9	10	55.00	21	10 10	55.00	31	10	55. LO
	9	10	55.00		10	55.00	31	10	70.00
	9	10	50.00	23	10	65.00	31	10	70.00
	9	10 10	55.00 55.00 60.00 60.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 70.00	23 23 23	10 10 10 10	85.00	31	10 10 10 10	70.00
	ğ	10	70.00	<u>س</u>	10	55.00	31	10	60.00
	•	10	70.00	23 23 23	10	60.00	21	10	50.00
	9	10	70.00	23	10	60.00	91	10	50.00
	9	10 10	70.00 70.00 70.00	1 92	10	55.00	31	10	50.00
	9	10 1	70.00	23	10	55.00	31	10	55.00
	10	10 10 10	55.00	23	10	60.00	31	10	55, 00
	10	10	55.00	24	10 10 10	55.00	31	10 10 10 10	55, 00
	10	10	50.00	24	10	55.00	31	10	55.00
	10	10	50.00	24	10	55.00	31	10	55.00
	10	10 10	80.00	24	10 10	86.00	31	10	55.00
	11	10	50.00	24	10	55.00	31	10 10	55.00
	11	10	55.00	24	10	85.00	31	10	25.00
	11	10	85.00	24	10	85.00	91	10 10	50.00
	11 11	10 10 10	55.00 55.00 50.00 50.00 50.00 55.00 55.00 55.00 55.00 55.00 55.00 55.00	23	10 10	50.00 34.00 55.00 55.00 55.00 55.00 55.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60	28. 28. 28. 28. 27. 27. 27. 27. 27. 27. 27. 27. 27. 27	10	\$5.5.000
	11	10 1	50.00	24	10	55.00	31	10	55.00
	14	10 10	65.00	24	10	65.00	31	10 10	55.00
	14	10	50.00	24	10 10	55.00	81	10	85.00
	14	10	50.00	24	10	55.00	81	11	60.00
	14	10 10	50.00 55.00 55.00 55.00 55.00	24	10	55.00	31	15	75.00
	14	10	55.00	24	10	65.00	31	10 10 10	55.00
	14	10	55.UU	24	10 10	20.00	31	10	55.00
	14	10	55.00	24	10	70.00	31	10	55.00
	14	10 10	20.00	24	10 10	70.00	Apr. 1	10	80.00
	14	10	55.00	24	10	70.00	Apr. 1	10 10	80.00
	14	18	90.00	24	ĩŏ	70.00	1 1	10	65.00
	14	10	85,00	25	10	60.00	1	10	55.00
	14	10	55.00	25	10 10	60. CO	i i	10 10	55.00
	14	10	55.00 90.00 55.00 55.00 55.00 55.00	25	10 10 10	60 00	1	10	85.00
	14	10	55.00	25	10	60.00	2	10	70.00
	14	10	55.00	25	10	55.00	2	10	70.00
	14	10	55.00	25	10	55.00	2	10	70.00
	14	10	55.00	25	10	55. CO	2	10	55.00
	17	10 10 10	86.00	25	10	50.UU	2	10 10	50.00
	17	10	55.00 55.00 55.00	20	10 10	55.00	ž	10	55. UO
:	17	10	65.00	95	10	85.00	ž	10 10	80.00
	16	10	55.00 55.00 55.00 40.00	25	10 10	55. 00 55. 00	2	10	60. 00 60. 00 50. 00 50. 00
	16	10	55.00 40.00	26	10	70.00 60.00	2 2.	10	50.00

Importations of pulp wood imported from Canada and entered at the port of St. Albans, Vt., between January 1, 1907, and June 1, 1908—Continued.

	Date.	Quan- tity.	Value.	Data.	Quan- tity.	Value.	Date.	Quan- tity.	Value.
4	1908.	Cords.	ess on	1908. Apr. 10	Corde.	\$50.00	1908. Apr. 15	Cords.	955 00
Apr.	2	10 12	\$55.00 72.00 55.00 55.00	10	10	50.00	15	10	\$55.00 55.00
	3	10	55.00	10 10	10	50.00 50.00	15 15 15	10	55.00
	3	10	<b>55.00</b>	10	10	50.00	15	10	55.00
	3	10	56.00 EE 00	10	10	50.00	15	10 10	55.00
	3	10 10	55.00	10 10 10	10 10	55.00	16	10	50.00
	4	10	55.00	10	10 10	55.00	16	10	50.00
	4	10	55.00 55.00 55.00 55.00 55.00 72.00	10 10 10	10	50.00 50.00 55.00 55.00 55.00	15	10	50.00
	4	12	72.00	10	10 10	55. 00 55. 00	16	10 10	50,00
	4	10	45.00	10	10	I 55 00 I	16	10	50.00
	4	10	45. 00	10 10 10	10 10	55.00 55.00 55.00 50.00	16	10	50.00
	4	10	50.00	10	10	55.00	16	10	50.00
	4	12 10	72. 00 55. 00	10	10 10	80.00	16	10 10	50.00
	4	10	55.00	10 10 10	10	55.00	16	10	50.00
	4	10	85. 00 85. 00	10	10	55.00 55.00	16	10	55.00
	5	10	70.00	10 10 10	10	55.00	16	10	50.00
	5	10 10	70.00 70.00	10	10 10	85.00	16	10 104	53.00
	5	10	70.00	1 10	10	55.00 55.00 55.00 55.00	16	12	60.00
	5	10	70.00 55.00	10	10	55.00	16	10	60, 00
	6	10 10	50. 00 50. 00	10 11	30 10	165.00	16	10	60.00
	6	10	50.00 50.00	11	10	55.00 165.00 55.00 55.00	16	10 10	50.00
	6 6	10	50.00	11	10	<b>55.00</b>	17	30	110.00
	6	10	50, 00	11	10	55.00	17	20 10	65.00
	6	10	60.00	11 11 11	10	55.00	17	10	55.00
	6	10	60.00	11 11 11	10	50.00	17 17 17 17	10	<i>85.00</i>
	6	10 10	60. 00 50. 00	11	10 10	50. 00 55. 00	17	10 20 10	110.00
	6	10	55.00	11 11 11 13	12	60.00	17	10	55.00
	7	40	55. 00 280. 00	11	10	<b>55.00</b>	17	10	55.00
	7	40 20 20	140.00 140.00	11	10 10	55.00	17 17	10 10	55, 00
	4	10	50.00	13	10	80.00 80.00	17	10	50.00
	7	10	50.00	13	10	50.00	17	10	50.00
	7	10	50. 00 50. 00	13 13	10	50.00 50.00	17	10	50.00
	7	10	50.00 50.00	13 13 13	10	50.00 50.00	17	10	50.00
	7	10 10	50.00	13	10 10	50.00	18	20 70 30 70	385.00
	7	10	50.00 55.00	13	10	50.00	18	30	165, 00
	<u>7</u>	10	55.00	13	10	50.00	18	70	420.00
	7	10 10	55.00 55.00	13 13 13	10 10	60. 00 60. 00 60. 00	18	10 10	50.00
	7	10	55,00	13	10	60.00	18	10	50.00
	7	10	55.00	13 13 13	10	55.00	18	10	50.00
	<u>7</u>	10	55.00	13	10	55.00	18	10	50.00
	7	10 10	50.00 50.00	13	10 10	55.00 55.00	18	10 10	50.00
	7	10	50.00	13	10	55.00	18	10	50.00
	7	10	50.00 50.00	13	10	55.00	18	10	50, 00
	7	10	50:00	13	10	55.00	18	10	55.000055.00055.000055.000055.000055.000055.000055.000055.0000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.0000055.000055.000055.000055.000055.000055.000055.000055.000055.0000055.000055.000055.000055.000055.000055.000055.000055.000055.0000055.000055.000055.000055.000055.000055.000055.000055.000055.0000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.000055.00
	7	10 12	50.00 72.00	13	10 10	55.00 55.00	18	10 10	50.00
	7	11	55.00	13	10	55. 00 55. 00	18	10 10	60.00
	<u>7</u>	11	55.00	13	10	50.00	18	10	50.00
	7	8 71	48.00 38.00	13	10 10	55.00 55.00	18	10 10	60.00
	8	103	50.00	14	10	55.00	18	10	60.00
	8	10	50.00 70.00	14	10	55. 00 55. 00	18	10	60.00
	8	9	45.00 60.00	14	10	55. 00 55. 00	18	10 10	50.00
	§	10 10	60.00	14	10 10	55.00 55.00	18	10	60.00
	9	30	165.00	14	10	<b>55.00</b>	18	10	55, 00
	9	30 10	55.00	14	10	50.00	18	10	55, 00
	9	10	55.00 55.00	14	10	50.00 50.00	18	10	55.00
	9	10 10 10	55. 00 60. 00	14 14	10	50.00	18	10 10 10	50.00
	9	10	55, 00	14	10 10	50. 00 50. 00	18	10	60.00
	10 10 10	40	280.00	14 14 14	10	50.00	18	10	55.00
	10	10	70.00	14	10	60.00	18	12	66.00
	10 10	10 40	70.00 220.00	14	10 10	60. 00 55. 00	18	10 10	55.00
	10	10	55. 00	14	10	55.00	18. 18. 18. 18. 18. 18. 18. 18. 18. 18.	10	55.00
	10 10	10	50.00	14	12	72.00		10 10 10	55. 00 55. 00
	10 10 10	10	50.00	14 14 15	10	. 55.00	18 18 19	10 10	55.00 55.00
		10	50.00	1 19	10	55.00	10	141	

Importations of pulp wood imported from Canada and entered at the port of St. Albans, Vt., between January 1, 1907, and June 1, 1908—Continued.

1908.   Corda   Apr. 1908.   Corda   Apr. 24   110   855.00   Apr. 27   110   855.00   25   110   855.00   27   110   855.00   28   20   110   855.00   27   110   855.00   27   110   855.00   28   20   20   20   20   20   20	Date.	Quan- tity.	Value.	Date.	Quan- tity.	Value.	Date.	Quan- tity.	Value.
20. 10 85.00 25. 10 86.00 27. 10 85.00 27. 10 86.00 27. 10 86.00 28. 10 86.00 27. 10 86.00 28. 10 86.00 27. 10 86.00 28. 10 86.00 27. 10 86.00 28. 10 86.00 27. 10 86.00 27. 10 86.00 28. 10 86.00 27. 10 86.00 27. 10 86.00 27. 10 86.00 27. 10 86.00 27. 10 86.00 27. 10 86.00 27. 10 86.00 27. 10 86.00 27. 10 86.00 28. 10 86.00 27. 10 86.00 28. 10 86.00 27. 10 86.00 28. 10 86.00 27. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 1		Cords.	8290 OO	1908.	Cords.	*** M	1908.	Cords.	
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21. 10 85.00 22. 10 60.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 10 86.00 28. 1	19	10	55.00	25	20	110.00	27	10	55.00
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22. 10 60.00 25. 10 60.00 29 10 55.  22. 10 55.00 25. 10 50.00 29 10 50.  22. 10 55.00 25. 10 50.00 29 10 50.  22. 10 55.00 25. 10 55.00 29 10 50.  22. 10 55.00 26. 10 55.00 29 10 50.  22. 10 55.00 26. 10 55.00 29 10 50.  22. 10 55.00 26. 10 55.00 29 10 50.  22. 10 55.00 26. 10 55.00 29 10 55.  22. 10 55.00 26. 10 55.00 29 10 55.  23. 10 55.00 26. 10 55.00 29 10 55.  23. 10 55.00 26. 10 55.00 29 10 55.  23. 10 55.00 26. 10 55.00 29 10 55.  23. 10 55.00 26. 10 55.00 29 10 50.  23. 10 55.00 26. 10 55.00 29 10 50.  23. 10 55.00 26. 10 55.00 29 10 50.  23. 10 55.00 26. 10 55.00 29 10 55.  23. 10 55.00 27. 10 56.00 29 10 60.  23. 10 55.00 27. 10 56.00 29 10 60.  23. 10 55.00 27. 10 56.00 29 10 60.  23. 10 55.00 27. 10 56.00 29 10 50.  23. 10 55.00 27. 10 56.00 29 10 50.  23. 10 55.00 27. 10 56.00 29 10 50.  23. 10 55.00 27. 10 56.00 29 10 50.  23. 10 55.00 27. 10 56.00 29 10 50.  23. 10 55.00 27. 10 56.00 29 10 50.  23. 10 55.00 27. 10 56.00 29 10 56.  23. 10 55.00 27. 10 56.00 29 10 56.  23. 10 55.00 27. 10 55.00 29 10 56.  23. 10 55.00 27. 10 55.00 29 10 56.  23. 10 55.00 27. 10 55.00 29 10 56.  23. 10 55.00 27. 10 55.00 29 10 56.  23. 10 55.00 27. 10 55.00 29 10 56.  24. 10 56.00 27. 10 55.00 29 10 56.  25. 21 10 55.00 27. 10 55.00 29 10 56.  26. 27. 10 56.00 29 10 56.  27. 10 56.00 29 10 56.  28. 10 56.00 27. 10 55.00 29 10 56.  29. 10 56.  20. 10 56.00 27. 10 56.00 29 10 56.  20. 10 56.00 27. 10 56.00 29 10 56.  21. 10 56.00 27. 10 56.00 30 10 56.  22. 10 56.00 27. 10 56.00 30 10 56.  23. 10 56.00 27. 10 56.00 30 10 56.  24. 10 56.00 27. 10 56.00 30 10 56.  24. 10 56.00 27. 10 56.00 30 10 56.  24. 10 56.00 27. 10 56.00 30 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 5		10	50.00	25	10	55.00	28	10	<i>5</i> 0.00
22. 10 60.00 25. 10 60.00 29 10 55.  22. 10 55.00 25. 10 50.00 29 10 50.  22. 10 55.00 25. 10 50.00 29 10 50.  22. 10 55.00 25. 10 55.00 29 10 50.  22. 10 55.00 26. 10 55.00 29 10 50.  22. 10 55.00 26. 10 55.00 29 10 50.  22. 10 55.00 26. 10 55.00 29 10 50.  22. 10 55.00 26. 10 55.00 29 10 55.  22. 10 55.00 26. 10 55.00 29 10 55.  23. 10 55.00 26. 10 55.00 29 10 55.  23. 10 55.00 26. 10 55.00 29 10 55.  23. 10 55.00 26. 10 55.00 29 10 55.  23. 10 55.00 26. 10 55.00 29 10 50.  23. 10 55.00 26. 10 55.00 29 10 50.  23. 10 55.00 26. 10 55.00 29 10 50.  23. 10 55.00 26. 10 55.00 29 10 55.  23. 10 55.00 27. 10 56.00 29 10 60.  23. 10 55.00 27. 10 56.00 29 10 60.  23. 10 55.00 27. 10 56.00 29 10 60.  23. 10 55.00 27. 10 56.00 29 10 50.  23. 10 55.00 27. 10 56.00 29 10 50.  23. 10 55.00 27. 10 56.00 29 10 50.  23. 10 55.00 27. 10 56.00 29 10 50.  23. 10 55.00 27. 10 56.00 29 10 50.  23. 10 55.00 27. 10 56.00 29 10 50.  23. 10 55.00 27. 10 56.00 29 10 56.  23. 10 55.00 27. 10 56.00 29 10 56.  23. 10 55.00 27. 10 55.00 29 10 56.  23. 10 55.00 27. 10 55.00 29 10 56.  23. 10 55.00 27. 10 55.00 29 10 56.  23. 10 55.00 27. 10 55.00 29 10 56.  23. 10 55.00 27. 10 55.00 29 10 56.  24. 10 56.00 27. 10 55.00 29 10 56.  25. 21 10 55.00 27. 10 55.00 29 10 56.  26. 27. 10 56.00 29 10 56.  27. 10 56.00 29 10 56.  28. 10 56.00 27. 10 55.00 29 10 56.  29. 10 56.  20. 10 56.00 27. 10 56.00 29 10 56.  20. 10 56.00 27. 10 56.00 29 10 56.  21. 10 56.00 27. 10 56.00 30 10 56.  22. 10 56.00 27. 10 56.00 30 10 56.  23. 10 56.00 27. 10 56.00 30 10 56.  24. 10 56.00 27. 10 56.00 30 10 56.  24. 10 56.00 27. 10 56.00 30 10 56.  24. 10 56.00 27. 10 56.00 30 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 5	21 91	10	55.00	0.5	10	55.00 55.00	28	10	50.00
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22. 10 60.00 25. 10 60.00 29 10 55.  22. 10 55.00 25. 10 50.00 29 10 50.  22. 10 55.00 25. 10 50.00 29 10 50.  22. 10 55.00 25. 10 55.00 29 10 50.  22. 10 55.00 26. 10 55.00 29 10 50.  22. 10 55.00 26. 10 55.00 29 10 50.  22. 10 55.00 26. 10 55.00 29 10 50.  22. 10 55.00 26. 10 55.00 29 10 55.  22. 10 55.00 26. 10 55.00 29 10 55.  23. 10 55.00 26. 10 55.00 29 10 55.  23. 10 55.00 26. 10 55.00 29 10 55.  23. 10 55.00 26. 10 55.00 29 10 55.  23. 10 55.00 26. 10 55.00 29 10 50.  23. 10 55.00 26. 10 55.00 29 10 50.  23. 10 55.00 26. 10 55.00 29 10 50.  23. 10 55.00 26. 10 55.00 29 10 55.  23. 10 55.00 27. 10 56.00 29 10 60.  23. 10 55.00 27. 10 56.00 29 10 60.  23. 10 55.00 27. 10 56.00 29 10 60.  23. 10 55.00 27. 10 56.00 29 10 50.  23. 10 55.00 27. 10 56.00 29 10 50.  23. 10 55.00 27. 10 56.00 29 10 50.  23. 10 55.00 27. 10 56.00 29 10 50.  23. 10 55.00 27. 10 56.00 29 10 50.  23. 10 55.00 27. 10 56.00 29 10 50.  23. 10 55.00 27. 10 56.00 29 10 56.  23. 10 55.00 27. 10 56.00 29 10 56.  23. 10 55.00 27. 10 55.00 29 10 56.  23. 10 55.00 27. 10 55.00 29 10 56.  23. 10 55.00 27. 10 55.00 29 10 56.  23. 10 55.00 27. 10 55.00 29 10 56.  23. 10 55.00 27. 10 55.00 29 10 56.  24. 10 56.00 27. 10 55.00 29 10 56.  25. 21 10 55.00 27. 10 55.00 29 10 56.  26. 27. 10 56.00 29 10 56.  27. 10 56.00 29 10 56.  28. 10 56.00 27. 10 55.00 29 10 56.  29. 10 56.  20. 10 56.00 27. 10 56.00 29 10 56.  20. 10 56.00 27. 10 56.00 29 10 56.  21. 10 56.00 27. 10 56.00 30 10 56.  22. 10 56.00 27. 10 56.00 30 10 56.  23. 10 56.00 27. 10 56.00 30 10 56.  24. 10 56.00 27. 10 56.00 30 10 56.  24. 10 56.00 27. 10 56.00 30 10 56.  24. 10 56.00 27. 10 56.00 30 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 56.00 27. 10 56.00 1 1 10 56.  24. 10 5		10	50.00	25	10	88.00		10	55.00
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22. 10 55.00 25. 10 60.00 29 10 50.  22. 10 55.00 25. 10 55.00 29 10 50.  22. 10 55.00 25. 10 55.00 29 10 50.  22. 10 55.00 26. 10 55.00 29 10 50.  22. 10 55.00 26. 110 60.00 29 10 50.  22. 10 55.00 26. 110 60.00 29 10 55.  23. 10 55.00 26. 110 60.00 29 10 55.  23. 10 55.00 26. 10 55.00 29 10 55.  23. 10 55.00 26. 10 55.00 29 10 55.  23. 10 55.00 26. 10 55.00 29 10 56.  23. 10 55.00 26. 10 55.00 29 10 56.  23. 10 55.00 26. 10 55.00 29 10 56.  23. 10 55.00 26. 10 55.00 29 10 56.  23. 10 55.00 27. 10 60.00 29 10 60.  23. 11 55.00 27. 10 60.00 29 10 60.  23. 10 55.00 27. 10 60.00 29 10 60.  23. 10 55.00 27. 10 60.00 29 10 60.  23. 10 55.00 27. 10 60.00 29 10 60.  23. 10 55.00 27. 10 60.00 29 10 60.  23. 10 55.00 27. 10 60.00 29 10 60.  23. 10 55.00 27. 10 60.00 29 10 60.  23. 10 55.00 27. 10 60.00 29 10 60.  23. 10 55.00 27. 20 110.00 29 10 65.  23. 10 55.00 27. 20 110.00 29 10 65.  23. 10 55.00 27. 20 110.00 29 10 65.  23. 10 55.00 27. 10 60.00 29 10 65.  23. 10 55.00 27. 10 60.00 29 10 65.  23. 10 55.00 27. 10 65.00 29 10 65.  23. 10 55.00 27. 10 65.00 29 10 65.  23. 10 55.00 27. 10 65.00 29 10 65.  23. 10 55.00 27. 10 65.00 29 10 65.  23. 10 55.00 27. 10 65.00 29 10 65.  24. 10 55.00 27. 10 55.00 30 10 55.  24. 10 55.00 27. 10 55.00 30 10 55.  24. 10 55.00 27. 10 55.00 30 10 55.  24. 10 55.00 27. 10 55.00 30 10 55.  24. 10 55.00 27. 10 55.00 30 10 55.  24. 10 55.00 27. 10 55.00 30 10 55.  24. 10 55.00 27. 10 55.00 30 10 55.  24. 10 55.00 27. 10 55.00 30 10 55.  24. 10 55.00 27. 10 55.00 30 10 55.  24. 10 55.00 27. 10 55.00 30 10 55.  24. 10 55.00 27. 10 55.00 30 10 55.  24. 10 55.00 27. 10 55.00 30 10 55.  24. 10 55.00 27. 10 55.00 30 10 55.  24. 10 55.00 27. 10 55.00 30 10 55.  24. 10 55.00 27. 10 55.00 11 10 50.  24. 10 55.00 27. 10 55.00 11 10 50.  24. 10 55.00 27. 10 55.00 11 10 50.  24. 10 55.00 27. 10 55.00 11 10 50.  24. 10 55.00 27. 10 55.00 11 10 50.  24. 10 55.00 27. 10 55.00 11 10 55.00 11 10 55.  24. 10 55.00 27. 10 55.00 11 10 55.00 11 10 55.  24. 10 55.00 27. 10 55.00 11 10 55.00 11 10 55.  24. 10		50	800.00	25	10	50.00	29	40	220.00
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23. 10 85.00 27. 20 110.00 29 10 85.00 23 10.00 29 10 85.00 27. 10 85.00 29 10 85.00 23 10.00 29 10 85.00 27. 10 85.00 29 10 85.00 23 10.00 27. 10 85.00 29 10 85.00 23 10.00 27. 10 85.00 29 10 85.00 22 10 85.00 29 10 85.00 23 10 85.00 27. 10 85.00 29 10 85.00 23 10 85.00 27. 10 85.00 29 10 85.00 23 10 85.00 27. 10 85.00 29 10 85.00 23 10 85.00 27. 10 85.00 29 10 85.00 23 10 85.00 27. 10 85.00 29 10 85.00 23 10 85.00 27. 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10	22	10	1 55 OO I	25	îŏ	50.00	1 20 1	10	50.00
23.         10         55.00         27.         20         110.00         29.         10         55.00           23.         10         85.00         27.         20         110.00         29.         10         55.00           23.         10         85.00         27.         10         85.00         29.         10         50.0           23.         40         220.00         27.         10         55.00         29.         10         55.0           23.         10         55.00         27.         10         55.00         29.         10         55.0           23.         10         55.00         27.         10         56.00         29.         10         55.0           23.         10         55.00         27.         10         56.00         29.         10         55.0           23.         10         50.00         27.         10         56.00         29.         10         55.0           23.         10         50.00         27.         10         56.00         30.         10         56.0           23.         10         50.00         27.         10         50.00		10	55.00		10	60.00	29	10	86.00
22. 10 55.00 27 20 110.00 29 10 55.0  23. 10 55.00 27 10 66.00 29 10 55.0  23. 10 55.00 27 10 55.00 29 10 55.0  23. 10 55.00 27 10 55.00 29 10 55.0  23. 10 55.00 27 10 55.00 29 10 55.0  23. 10 55.00 27 10 55.00 29 10 55.0  23. 10 55.00 27 10 55.00 29 10 55.0  23. 10 55.00 27 10 55.00 29 10 55.0  23. 10 50.00 27 10 56.00 30 10 55.0  24. 10 55.00 27 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 5	22	10	55.00	26	10	55.00	29	10	86.00
22. 10 55.00 27 20 110.00 29 10 55.0  23. 10 55.00 27 10 66.00 29 10 55.0  23. 10 55.00 27 10 55.00 29 10 55.0  23. 10 55.00 27 10 55.00 29 10 55.0  23. 10 55.00 27 10 55.00 29 10 55.0  23. 10 55.00 27 10 55.00 29 10 55.0  23. 10 55.00 27 10 55.00 29 10 55.0  23. 10 55.00 27 10 55.00 29 10 55.0  23. 10 50.00 27 10 56.00 30 10 55.0  24. 10 55.00 27 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 5	22	10	55.00	26	60	330.00	29	10	\$ 55.00
22.         10         55.00         27.         20         110.00         29.         10         55.00           23.         10         55.00         27.         10         60.00         29.         10         55.00           22.         30         185.00         27.         10         55.00         29.         10         50.0           23.         40         220.00         27.         10         55.00         29.         10         55.0           23.         10         55.00         27.         10         56.00         29.         10         55.0           23.         10         55.00         27.         10         56.00         29.         10         55.0           23.         10         55.00         27.         10         56.00         29.         10         55.           23.         10         50.00         27.         10         56.00         29.         10         55.           23.         10         50.00         27.         10         56.00         30.         10         56.           23.         10         50.00         27.         10         50.00         30.	22 22	10	55.00	20	110	110.00	29	10	88.00
22.         10         55.00         27.         20         110.00         29.         10         55.00           23.         10         55.00         27.         10         60.00         29.         10         55.00           22.         30         185.00         27.         10         55.00         29.         10         50.0           23.         40         220.00         27.         10         55.00         29.         10         55.0           23.         10         55.00         27.         10         56.00         29.         10         55.0           23.         10         55.00         27.         10         56.00         29.         10         55.0           23.         10         55.00         27.         10         56.00         29.         10         55.           23.         10         50.00         27.         10         56.00         29.         10         55.           23.         10         50.00         27.         10         56.00         30.         10         56.           23.         10         50.00         27.         10         50.00         30.	23	10	55.00	26	10	55.00	29	10	50.00
22.         10         55.00         27.         20         110.00         29.         10         55.00           23.         10         55.00         27.         20         110.00         29.         10         55.00           23.         40         185.00         27.         10         55.00         29.         10         50.0           23.         40         220.00         27.         10         55.00         29.         10         55.0           23.         10         55.00         27.         10         56.00         29.         10         55.0           23.         10         55.00         27.         10         56.00         29.         10         55.           23.         10         55.00         27.         10         56.00         29.         10         55.           23.         10         50.00         27.         10         56.00         29.         10         55.           23.         10         50.00         27.         10         56.00         30.         10         56.           23.         10         50.00         27.         10         50.00         30.	23	10	55.00	26	10	55.00	29	10	55.00
22. 10 55.00 27 20 110.00 29 10 55.0  23. 10 55.00 27 10 66.00 29 10 55.0  23. 10 55.00 27 10 55.00 29 10 55.0  23. 10 55.00 27 10 55.00 29 10 55.0  23. 10 55.00 27 10 55.00 29 10 55.0  23. 10 55.00 27 10 55.00 29 10 55.0  23. 10 55.00 27 10 55.00 29 10 55.0  23. 10 55.00 27 10 55.00 29 10 55.0  23. 10 50.00 27 10 56.00 30 10 55.0  24. 10 55.00 27 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 5	22	10	55.00	26	10	65.00	29	10	45.00
22. 10 55.00 27 20 110.00 29 10 55.0  23. 10 55.00 27 10 66.00 29 10 55.0  23. 10 55.00 27 10 55.00 29 10 55.0  23. 10 55.00 27 10 55.00 29 10 55.0  23. 10 55.00 27 10 55.00 29 10 55.0  23. 10 55.00 27 10 55.00 29 10 55.0  23. 10 55.00 27 10 55.00 29 10 55.0  23. 10 55.00 27 10 55.00 29 10 55.0  23. 10 50.00 27 10 56.00 30 10 55.0  24. 10 55.00 27 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 56.00 30 10 5	23	10	55.00	26	10	55.00	29	10	60.00
23.         10         55.00         27.         20         110.00         29.         10         55.00           23.         10         85.00         27.         20         110.00         29.         10         55.00           23.         10         85.00         27.         10         85.00         29.         10         50.0           23.         40         220.00         27.         10         55.00         29.         10         55.0           23.         10         55.00         27.         10         55.00         29.         10         55.0           23.         10         55.00         27.         10         56.00         29.         10         55.0           23.         10         55.00         27.         10         56.00         29.         10         55.0           23.         10         50.00         27.         10         56.00         29.         10         55.0           23.         10         50.00         27.         10         56.00         30.         10         56.0           23.         10         50.00         27.         10         50.00	23	10	55.00	27	10	60.00	29	10	50.00
23. 10 85.00 27. 20 110.00 29 10 85.00 23 10.00 29 10 85.00 27. 10 85.00 29 10 85.00 23 10.00 29 10 85.00 27. 10 85.00 29 10 85.00 23 10.00 27. 10 85.00 29 10 85.00 23 10.00 27. 10 85.00 29 10 85.00 22 10 85.00 29 10 85.00 23 10 85.00 27. 10 85.00 29 10 85.00 23 10 85.00 27. 10 85.00 29 10 85.00 23 10 85.00 27. 10 85.00 29 10 85.00 23 10 85.00 27. 10 85.00 29 10 85.00 23 10 85.00 27. 10 85.00 29 10 85.00 23 10 85.00 27. 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10 85.00 20 10		10	55.00	27	20	110.00	29	10	65.00
24         20         110.00         27         10         55.00         30         10         55.20           24         10         55.00         27         10         55.00         30         20         120           24         10         55.00         27         10         55.00         1         10         50.0           24         10         65.00         27         10         55.00         1         10         50.0           24         10         55.00         27         10         56.00         1         10         50.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         56.00         1         10         5		10	55.00	27	20	110.00	29	10	55.00
24         20         110.00         27         10         55.00         30         10         55.20           24         10         55.00         27         10         55.00         30         20         120           24         10         55.00         27         10         55.00         1         10         50.0           24         10         65.00         27         10         55.00         1         10         50.0           24         10         55.00         27         10         56.00         1         10         50.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         56.00         1         10         5	23 23	10	85.00	27	10	60.00	29	10	55.00 50.00
24         20         110.00         27         10         55.00         30         10         55.20           24         10         55.00         27         10         55.00         30         20         120           24         10         55.00         27         10         55.00         1         10         50.0           24         10         55.00         27         10         55.00         1         10         50.0           24         10         55.00         27         10         55.00         1         10         50.0           24         10         55.00         27         10         55.00         1         10         50.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         55.00         1         10         5	23	30	165.00	27	10	55.00	29	10	50.00
24         20         110.00         27         10         55.00         30         10         55.20           24         10         55.00         27         10         55.00         30         20         120           24         10         55.00         27         10         55.00         1         10         50.0           24         10         65.00         27         10         55.00         1         10         50.0           24         10         55.00         27         10         56.00         1         10         50.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         56.00         1         10         5	23	40	220.00	27	10	55.00	29	10	55.00
24         20         110.00         27         10         55.00         30         10         55.20           24         10         55.00         27         10         55.00         30         20         120           24         10         55.00         27         10         55.00         1         10         50.0           24         10         55.00         27         10         55.00         1         10         50.0           24         10         55.00         27         10         55.00         1         10         50.0           24         10         55.00         27         10         55.00         1         10         50.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         55.00         1         10         5	23	10	55.00	27	10	55.00	29	10	55.00
24.         20         110.00         27.         10         55.00         30.         10         55.20           24.         10         55.00         27.         10         55.00         30.         20         120.           24.         10         60.00         27.         10         55.00         May         1.         10         50.           24.         10         65.00         27.         10         55.00         1.         10         50.           24.         10         55.00         27.         10         55.00         1.         10         50.           24.         10         55.00         27.         10         55.00         1.         10         50.           24.         10         55.00         27.         10         55.00         1.         10         50.           24.         10         55.00         27.         10         55.00         1.         10         50.           24.         10         55.00         27.         10         55.00         1.         10         55.           24.         10         55.00         27.         10         55.00	23	10	55.00	27	10	50.00	29	10	55.00
24         20         110.00         27         10         55.00         30         10         55.20           24         10         55.00         27         10         55.00         30         20         120           24         10         55.00         27         10         55.00         1         10         50.0           24         10         65.00         27         10         55.00         1         10         50.0           24         10         55.00         27         10         56.00         1         10         50.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         56.00         1         10         5	23 23	10	50.00	27	10	56.00 50.00	30	10	55.00
24.         20         110.00         27.         10         55.00         30.         10         55.20           24.         10         55.00         27.         10         55.00         30.         20         120.           24.         10         60.00         27.         10         55.00         May         1.         10         50.           24.         10         65.00         27.         10         55.00         1.         10         50.           24.         10         55.00         27.         10         55.00         1.         10         50.           24.         10         55.00         27.         10         55.00         1.         10         50.           24.         10         55.00         27.         10         55.00         1.         10         50.           24.         10         55.00         27.         10         55.00         1.         10         50.           24.         10         55.00         27.         10         55.00         1.         10         55.           24.         10         55.00         27.         10         55.00	23	10	50.00	27	10	50.00	30	10	\$6.00
24         20         110.00         27         10         55.00         30         10         55.20           24         10         55.00         27         10         55.00         30         20         120           24         10         55.00         27         10         55.00         1         10         50.0           24         10         55.00         27         10         55.00         1         10         50.0           24         10         55.00         27         10         55.00         1         10         50.0           24         10         55.00         27         10         55.00         1         10         50.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         55.00         1         10         5	23		50.00	27	10	50.00	i An i	10	55.00
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24         20         110.00         27         10         55.00         30         10         55.20           24         10         55.00         27         10         55.00         30         20         120           24         10         55.00         27         10         55.00         1         10         50.0           24         10         55.00         27         10         55.00         1         10         50.0           24         10         55.00         27         10         55.00         1         10         50.0           24         10         55.00         27         10         55.00         1         10         50.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         55.00         1         10         56.0           24         10         55.00         27         10         55.00         1         10         5	74 94	10	50.00	27	10	55.00 55.00	1 an i	10	55.00 50.00
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	24	10	88.00 88.00	27	10	56.00	<b>i</b>	10	55.00

Importations of pulp wood imported from Canada and entered at the port of St. Albans, Vt., between January 1, 1907, and June 1, 1908—Continued.

		Date.	Quan- tity.	Value.	Date.	Quan- tity.	Value.	Date.	Quan- tity.	Value.
May		1000			1000			1000		
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5		<u> </u>		50.00	8	10	60.00	15		55.00
5		B		50.00	8		80.00	15		50.00
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5		<u>5</u>		50.00	8		55.00	15		55.00
5		D		50.00	8		220.00	15		85.00
5         10         50.00         8         9         45.00         15         10         85.00           5         10         55.00         8         10         55.00         15         10         60.00           5         10         50.00         8         10         85.00         15         10         60.00           5         10         60.00         8         10         85.00         15         10         85.00           5         10         60.00         8         10         85.00         15         10         85.00           5         10         60.00         8         12         72.00         15         10         85.00           5         10         45.00         8         10         85.00         15         10         85.00           5         10         85.00         8         10         85.00         15         10         85.00           5         10         85.00         8         10         85.00         15         10         85.00           6         10         85.00         8         10         85.00         15         10         85.00<		V		50.00	8		50.00	15		85.00
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6 10 55.00 10 10 55.00 16 9 80.00 7. 10 50.00 10 10 55.00 16 9 80.00 7. 10 50.00 10 10 55.00 16 10 85.00 7. 10 50.00 10 10 55.00 16 10 85.00 7. 10 50.00 11 60 230.00 17 10 85.00 7. 10 50.00 11 80 230.00 17 10 85.00 7. 10 55.00 11 80 230.00 17 10 85.00 7. 10 55.00 11 20 110.00 17 10 85.00 7. 10 55.00 11 20 110.00 17 10 85.00 7. 10 55.00 11 10 55.00 17 10 85.00 7. 10 55.00 11 10 55.00 17 10 85.00 7. 10 10 55.00 11 10 55.00 17 10 85.00 7. 10 10 10 10 10 10 10 10 10 10 10 10 10				50.00			55.00			55.00
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7. 10 50.00 11 10 55.00 17 30 166.00 7. 10 50.00 11 10 55.00 17 110 606.00 7. 10 86.00 11 10 56.00 18 10 86.00		7	10	55.00	11	10	55.00	17		55.00
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				56.00	ii		55.00	18	10	<b>55.00</b>

# Importations of pulp wood imported from Canada and entered at the port of St. Albans, Vt., between January 1, 1907, and June 1, 1908—Continued.

Data.	Quan- tity.	Value.	Date.	Quan- tity.	Value.	Date.	Quan- tity.	Value.
1908.	· Cords.		1908.	Cords.		1908.	Cords.	
May 18	10	\$55.00	May 23	10	\$55.00	May 25	10	\$55,00
18	10	55.00	23	9	54.00	25	10	85, 00
18	10	55.00	23	10	60.00	25	10	55.00
18	40	220.00	24	10	55.00	25	10	55, 00
19	10	55.00	24	10	55.00	25	10	55, 00
20	10	55.00	24	10	55.00	25	20	120.00
20	10	85.00	24	10	55.00	25	10	55, 00
21	10	55.00	24	10	50.00	25	10	55, 00
21	30	165.00	24	10	50.00	25	10	55, 00
21	50	275.00	24	10	50.00	25	10	55, 00
21	10	55.00	24	10	50.00	25	10	55, 00
21	10	55.00	24	10	50.00	25	10	55, 00
21	10	60.00	24	30	150.00	25	10	55, 00
21	10	60.00	24	10	50.00	25	10	55.00
21	10	60.00	24	10	60.00	25	10	55.00
21	10	55.00	24	10	50.00	25	10	55.00
21	10	85.00	24	10	50.00	25	10	55.00
21	10	55.00	24	10	55.00	25	10	55.00
22	10	65.00	24	10	55.00	27	10	55.00
22	10	55.00	24	10	55.00	27	10	85.00
22	10	85.00	24	10	55.00	28	10	60.00
22	10	55.00	24	10	55.00	28	30	165.00
22	10	55.00	24	10	55.00	28	10	85.00
22	10	55.00	24	10	65.00	28	10	55.00
22	40	220.00	24	10	65.00	28	10	60.00
22	10	55.00	24	10	55.00	28	10	60.00
22	10	85.00	24	10	55.00	28	10	60.00
22	10	55.00	24	13	78.00	28	10	60,00
22	10	55.00	24	10	55.00	28	10	60.00
22	10	55.00	24	10	55.00	28	10	85.00
22	10	55.00	24	10	55.00	28	10	<i>8</i> 5.00
23	70	385.00	24	7	35.00	28	10	55.00
23	30	165.00	25	10	60.00	28	10	55, 00
23	20	110.00	25	10	60.00	28	10	<b>5</b> 5. 00
23	10	55.00	25	10	60.00	29	10	55.00
23	10	55.00	25	10	55.00	29	10	55.00

## RECAPITULATION.

Date.	Quantity.	Value.
January. 1907.	Cords.	\$312,00
February	3204	1, 292.00
March		1,775.00
April		8, 789. 00 5, 736. 00
June	.  8734	8, 970.00
July August		4, 908, 0 14, 396, 0
September		14, 153, 0
October	926	4, 939. 00
November		632.0 1,644.0
1908.		
January	. 160	840.0
February	. 1,017 2,634	5, 534. 0 14, 521. 0
April May	. 5,859	21, 913, 0 28, 015, 0
	26, 270	138, 269. 0

## PORT OF RICHFORD, VT.

Importations of wood pulp, mechanically ground, from Canada, at the port of Richford, Vt., from January 1, 1907, to June 1, 1908, under paragraph 393.

Date of arrival.	Quantity.	Value.	Duties.	Addi- tional duties.	Date of arrival.	Quantity.	Value.	Duties.	Addi- tional duties.
1907.	Pounds.				1907.	Pounds.			İ
Jan. 1	90,300	\$564,00	<b>3</b> 75, 25	\$11. 29	Sept. 25	86, 400	2518, 00	\$72.00	
9	86,022	602.00	71.69	V11.20	Oct. 4	57,600	346.00	48.00	
10	37,800	428, 00	31.50		7	28, 800	178.00	24.00	
18	72,450	507.00	60. 38		8	38, 400	230.00	32.00	
18	40, 131	267.00	33. 44		9	28,800	173.00	24.00	
18	30,860	216.00	25. 72		14	28, 800	173.00	24.00	
18	93,051	651.00	77.54		15	19, 200	115.00	16.00	
18	63,675	423.00	53, 06	!	17	19, 200	115.00	16.00	
26	49,600	347.00	41.33	i	22	18,009	225.00	15.01	
Feb. 9	75,600	473.00	63.00	9.45	24	48,000	288.00	40.00	
11	54,990	622.00	45.83	j	29	28, 800	173.00	24.00	· · · · · · •
11	32,760	371.00	27.30		Nov. 1	86, 400	518.00	72.00	
20	87,800	428.00	31.50		6	76, 800	461.00	64.00	
20	83,390	378.00	27.83		20	19, 200	115.00	16.00	
22 23	37,800	428.00 926.00	31. 50 68. 23		25 27	86,400 28,800	518.00 173.00	72.00 24.00	
Mar. 6	81,877 32,760	271.00	27. 30		29	57.600	346.00	48.00	
MET. 9	60,200	846.00	50. 17	7. 53	Dec. 6	62, 485	437.00	52.07	\$7.8
15	81,000	632.00	67.50	10. 13	Das. 9	30, 250	212.00	25. 21	2.7
15	60,200	346.00	50.17	7. 53	ذ ا	72,000	432.00	60.00	•
21	90,300	564.00	75. 25	11.29	13	57,600	346.00	48.00	
21	51,750	404.00	43. 13	6. 47	14	28, 800	173.00	24.00	
28	60,200	346, 00	50. 17	7. 53	21	86, 400	518.00	72.00	1
29	22,500	176.00	18, 75	2.81	31	86, 400	518.00	72,00	
Apr. 1	60,200	346.00	50. 17	7.53	]	,			
16	54,000	421.00	45.00	6.75	1908.				
22	33,600	<b>20</b> 2. 00	28.00		Jan. 11	48,000	288.00	40.00	<b> </b>
22	54,000	421.00	45.00		13	19, 200	115.00	16.00	
May 8	48,000	288.00	40.00		22	76, 800	461.00	64.00	
23	72,000	432.00	60.00		29	76, 800	461.00	64.00	
29	28,800	173.00	24.00		Feb. 18	87, 170	402.00	38. 98	
June 11	24,000	144.00	20.00		20	24, 366	276.00	20.31	<b></b>
11	62, 400	374.00	52.00		Apr. 7	57,600	346.00	48.00	<b></b>
18	76,800	461.00	64.00		20	48,000	288.00	40.00	<b></b>
July 6	86,400	518.00	72.00		May 15	76, 800	461.00	64.00	·
18	57,600	346.00	48.00		maas.	9 041 400	00 000 00	9 000 00	00.0
Aug. 9	86,400	518.00	72, 00 62, 00		Total	3,841,496	26, 300.00	8, 209. 29	99. 9
Bept. 16	74,400	446.00	62.00		Į	i			1

No importations of filter masse or filter stock to Richford, Vt., under paragraph 395.

White news printing paper imported from Canada at Richford, Vt., from January 1, 1907, to June 1, 1908, under paragraph 396.

Date of arrival.	Quantity.	Value.	Duties.	Date of arrival.	Quantity.	Value.	Duties.
1907.	Pounds.			1908.	Pounds.		
Feb. 1	230	\$6.00	\$1. 15	May 4	132,623	<b>\$2</b> , 453.00	\$397. 87
Apr. 15	39,717	715.00	119. 15	7	94, 191	1,790.00	282. 57
15	5, 460	115.00	21.84	7	96,376	1,831.00	289, 13
	-,		1	14	85,046	1,616.00	255, 14
1908.				15	135, 932	2,583.00	407, 80
Apr. 14	95,346	1.764.00	286.04	16	81, 190	1,543.00	243. 57
15	47, 294	875.00	141.88	19	42,047	799.00	126, 14
16	48, 450	896.00	145. 35	23	94,786	1,801.00	284, 30
22	74, 499	1,751.00	223.50	25	43,764	832, 00	131. 20
25	80, 336	1, 486, 00	241.01				
25	83, 109	1,538.00	249. 33	Total	1,329,779	25, 308, 00	8, 995, 27
30	49, 383	914.00	148, 15		.,,		-,

Importations of spruce pulp wood from Canada at Richford, Vt., from January 1, 1907, to June 1, 1908, under paragraph 699.

Date	of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
	1907.	Cords.	****	1907.	Cords.		Jan. 27. 27. 27. 27. 27. 27. 27. 27. 28. 28. 29. 29. 30. 30. 30. 31. Feb. 1 3 5 5 5 7.	Cords.	
Јац.	1	19	\$90.00 45.00	June 1	20 20	<b>\$80.00</b>	Jan. 27	12 16	<b>872.00</b>
	1	9	45.00	3	10	80.00 45.00	27	16	96.00
	2 2 2	18	90.00	3	20	90,00	27	ĩŏ	70.00
	2	18 10 20 20 10 20 12	90.00 40.00	5	10	90.00 50.00	27	12 12 12	66.00
	2	10	40.00	5	10	50.00	27	12	66.00
	2	20	80. 00 80. 00	5	20 10	90.00 40.00	27	12	66.00
	2	10	50.00	Aug. 28	30	180 00	28	12	66.00
	2	20	50.00 80.00 66.00 55.00	Sept. 3	10	60.00 60.00 240.00	28	12 12 12 12	66.00
	5	12	66.00	3	10	60.00	28	12	66, 00
	5	10 10	55.00	7	40 10	240.00	29	12	66.00
	Ŕ	10	50.00	16	10	60.00 60.00	30	10 12	70.00
	8	9	50.00 45.00	10	30	180.00	a0	16	96.00
	8	18	90.00	12	10	55.00	30	122	77.00
_	8	18	90.00	16	40 10	240.00 60.00	31	12	72.00
1	10	54	45.00 90.00 270.00 36.00 60.00 225.00	19	10	60.00	Feb. 1	12 9 101	<b>50.00</b>
1	10	10	80.00	20	10 10	60.00 60.00	Ž	109	70.00
í	10 10	9 10 12 45 20	60.00	21	10	60.00	5	11 114 121 121 111	71.00
ī	4	45	225.00	21	10	60.00	7	121	75.00
1	16	20	100.00	25	10	60.00	7	12	75.00
. ]		9	45.00	25	10	60.00 180.00	<u>7</u>	113	69.00
1	16		45.00 36.00 98.00	20	30 10	180.00	5	8 12	48.00
í	17 17 17	10	49.00 72.00 72.00 98.00	27	10	85, 00 60, 00	8	12	72 00
Ī	7	18	72.00	27	10	60.00	8	12 114	68, 00
1	17	18	72.00	30	10	60.00	11	10	70.00
1	17 17 29 8	20 10 18 18 20 10 36	98.00	Oct. 3	10	60.00	11	10	60.00
Feb.	æ	20	40.00 180.00	4	10 10	55. 00 60. 00	11	113 101	71.00
		ا ت	45.00	2	10	60.00	14	12	78.00
1	l6 l8	9	45.00	. 8	10	55.00	14	18 12	72.00
1	18	45 9	45. 00 45. 00 225. 00	4 8 30 Nov. 1	10	60.00 55.00 60.00 72.00	14	12	72.00
1	18	9	45.00	Nov. 1	12	72.00	14	10	70.00
2	@	18	90.00	1	12	72.00	15	10	60.00
9	26 26 26	18 18	90.00 90.00	1 4 14	12 12	72.00	15	12 10 10 10 12 10	72 00
2	26	9 1	45.00	15	10	72.00 55.00	15	10	60.00
	36	10	45. 00 50. 00	19 19 25 25 27	10	55.00	15	10	60.00
Mar.	2	20	80. 00 90. 00	Dec. 14	15	75.00	15	10 12	70.00
	4	20 18 18	90.00	25	9 <u>1</u> 10	67.00	15	12	66.00
1	3	10	90.00	27	91	45.00 40.00	15	9 14	84.00
i	4	10	45.00 40.00 45.00 66.00	•	-	30.00	17	iō	60.00
1	5	9 12	45.00	1908.			18	10 12 12 12 12 12 12	72.00
2	11 21 22 25	12	66.00	Jan. 2	9	54.00	18	12	72.00
2	<u> </u>	12 10 12 9	66.00 45.00 66.00 50.00	6	9	45.00 82.00	19	12	66.00
á	×	12	66.00	ģ	11 <del>1</del> 10	60.00	19	12	66.00
2	25 16	10	50.00	8	10	80.00	10	12	66.00
2	6	10	40.00 45.00 66.00 66.00	8	9	63. 00 45. 00 70. 00 89. 00	19	9	50.00
2	8		45.00	10	10	45.00	20	10 1	60 00
2	7	12	66.00	15	10	70.00	20	10 10	55 00
2	7 7 7	12 12	66.00	15	12 <del>1</del> 12	84.00	20	10	72 00
2	7	12		16	îõ	84. 00 60. 00	20	12 10	60.00
2	7	12	66.00	18	12	75.00 I	20	14	84.00
Apr.	9	93 12 10 10 20 9	66.00 51.00 66.00	20	12	66.00	21	14 9 13 13 12	54.00
	5	12	66.00	20	12	66. 00 66. 00	21	13	78.00
•	5	10	45.00 45.00	21	12 12	66.00	21	13	78.00
	7	20	80.00	22	12	66.00	21	101	63 00
2	M	9	45.00	22	12	66. 00 66. 00	21	101 101	63.00
2	M	20	80.00 45.00 90.00 60.00	22	111	68. 00 90. 00	22	•	54.00
2	<u> </u>	20	60.00	23	15	90.00	24	10	60. 00
2	M M 15	10	<b>30.</b> 00 60. 00	23	12 12	72.00	24	101 121 101	75.00
2	5	10	30.00	23	12	72.00	24	12 1	72.00
May	7	20 10 20 10 20 10 20 20 20 10	30.00 60.00 40.00	Jan. 2	12	72.00 72.00 72.00 72.00 62.00 72.00 96.00 72.00 66.00 66.00	11	12	72.00
	7	10	40.00	24	101	62.00	25	12 60 11	330.00
	g	20	100.00	24	12	72.00	25 25 25 25	11	66.00
	ř····	20	90.00	24	16	79.00	20	.8	48.00
1	• • • • • • • • • •	30	100.00	24	12 12	66.00	25	13	78.00
1	1 ·								
1 1 1	4	10	30.00	24	12	66.00	1 95 1	104	62.00
1 1 1 1	4 B	10 10	90.00 30.00 100.00 30.00 40.00	24 24	12 12	66, 00	1 95 1	8 13 13 10 <u>1</u> 10 <u>1</u>	62.00 62.00
1 1 1 1 1 1	4 8 8	10 10 10 8	30.00 40.00 40.00	24 24 25 27	12	66.00 66.00 50.00 63.00	25 25 25 25	101 101 15	95.000000000000000000000000000000000000

Importations of spruce pulp wood from Canada at Richford, Vt., from January 1, 1907, to June 1, 1908, under paragraph 699—Continued.

Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.	Date of arrival.	Quan- tity.	Value.
1908.	Cords.		1908.	Cords.		1908.	Cords.	
<b>Fe</b> b. 25	10	\$60.00	Mar. 12	12	\$72.00	Mar. 20	12	\$72.00
25	10	60.00	12	12	72.00	20		
26	12	72.00	12	12	72.00	20	111	
26	12	72.00	12	12	66.00	20		78.00
27	14	84.00	12	12	66.00	20	12	72.00
27	10	60.00	13	10	60.00	20	12	72.00
27	12	66.00	13	12 12	72.00 72.00	20		48.00
27 27	9 12	54.00 72.00	14	13	78.00	20	111 12	69.00 72.00
28	12	66.00	14	10	50.00	21	12	60.00
28	36	198, 00	14	10	60.00	21	14	84.00
28	10	60.00	17	12	66.00	21	14	84.00
28	10	60.00	14	12	66.00	23	12	66.00
28	12	72.00	14	12	66.00	23	12	66.00
29	12	66.00	14	12	66.00	25	12	66.00
29	12	66.00	16	9	50.00	26	14	84.00
29	io	60.00	16	12	66.00	30	14	63.00
29	ĩŏ	60.00	16	12	66.00	Apr. 2		60.00
29	12	72.00	16	2	50.00	2	14	84.00
29	13	78.00	16	12	66, 00	21	12	72.00
Mar. 1	104	53.00	16	12	66.00	21	8	48.00
1	12	66.00	16	12	66.00	27	9	54.00
1	12	66, 00	16	12	66, 00	27	9	54.00
1	12	66.00	16	12	66.00	27		54.00
1	221	116.00	16	9	54.00	28	. 9	54.00
8	36	198.00	16	9	54.00	28	9	54.00
4	12	70.00	16	10	60.00	28	9	54.00
4	10	60.00	16	104	63.00	29	10	60.00
5	10	63.00	16	10	60.00	29	10	60.00
5	10	63.00	16	13	78. 00	29	10	60.00
5	10	60.00	16	12	72.00	29	10	60.00
6	8	48.00	16	10	60.00	29	9	45.00
<u> </u>	103	63.00	16	10	60.00	29	9	45.00
7	14	84.00	17	14	84.00	30	10	45.00
7	14 10	84.00 50.00	17 17	14 10	84. 00 60. 00	30	10	60.09 60.00
<b>4</b> ······	12	72.00	17	14	84.00	May 1	10	54.00
ğ	12	72.00	17	104	63.00	2	12	60.00
ā	12	72.00	18	10	60.00	2		65.00
10	12	72.00	18	10	60.00	2	12	60.00
10	12	70.00	18	iŏ	60.00	6	8	45.00
11	124	75.00	18	10	60, 00	6	12	60.00
11	10	60.00	18	ě	50.00	8	12	60.00
12	10	60.00	18	12	66.00	8	10	65.00
12	13	78.00	18	9	84, 00	13	10	60.00
12	12	72.00	19	12	72.00	14	9	54.00
12	12	72.00	19	9	50.00			
12	12	72.00	20	10	60.00	Total	5,021	25,577.00
12	11	66,00	20	10	60, 00	1	I	-

## PORT OF NEWPORT, VT.

Mechanically ground and chemically unbleached pulp of wood imported into the district of Memphremagog (Newport, Vt., port of entry), from January 1, 1907, to June 1, 1908, from the Dominion of Canada, under paragraph 393.

## MECHANICALLY GROUND PULP OF WOOD.

Data	Quantity.	Value.	Duty.	Counterval (paragraj	ling duty ph 393).
<del></del>				Quantity.	Duty.
January 1	Pounds. 44,598 86,899	\$201.00 391.00	\$37. 17 72. 42	Cords.	
Do	42,463 54,772	191. 00 246. 00 225. 00	85. 39 45. 64 41. 73		
Do Do		159.00 234.00 549.00	29. 53 43. 39 101. 64		
Do Do	41,140	185.00	34.28		

Date.	Quantity.	Value.	Duty.	Counterval (paragra)	ling duty ph 393).
	<b>Q</b>			Quantity.	Duty.
1907.	Pounds.			Cords.	
nuary 2	23,496 24,403 24,105	\$82.00 85.00	\$19.58 20.34		
Do	24, 105	84.00	20.09		
Do	36,958	166, 00	30.80		
Do	48,681	219.00 217.00	40, 57		
<u>p</u> o	48,307	217.00	40. 26		
Do Do	35,000	223.00	29. 17 61. 30		
Do	73, 564 36, 207	331.00 163.00	30.17		
Do	36,063	162.00	30.05		·····
Do	37,338	168.00	31. 12		
Do	99.077	446.00	82. 56		<b></b> .
Do	44,900	202.00	37. 42		
Do.	72,550	326.00	60. 46 16. 46		
nuary 5	19,751 140,200	69.00 1,157.00	116.83	40. 38 27. 56	\$10.
Do	95,699	789.00	79.75	27. 56	6.8
Do	95,699 37,329	168.00	81.11		
Do	77,205	847.00	64. 34		
monry 7	26, 932	94. 00 657. 00	22. 44 57. 62	19. 91	4.
DO	69,142 22,599	79.00	18. 83	18.81	<b>9.</b> 1
Do	43,450	217. 00	<b>36. 21</b>		
Do	74, 166	779.00	61. 81	21. 36	5.
Do	43,558	196. 00	<b>26</b> . 30		
Do	67, 413	203.00	56. 18		
Dounuary 9unuary 10	72,681 60,612	827. 00 500. 00	60. 57 50. 51	17. 46	
unitary 10	34, 435	155 00	28.70	177 10	-
Do	52.308 i	155.00 235.00	28. 70 43. 59	) <b></b>	
Do	42,333	190.00	85. 28 29. 10		<b> </b>
Do	84, 915	157. 00 197. 00	29. 10		
Do	43,690	197. 00	36. 41 40. 56	· · · · · · · · · · · · · · · ·	
Do	48,667 36,010	219.00 162.00	40. 50 30. 01		
Do	34,540	155.00	28. 78		
Do	21, 177 24, 916	74.00 112.00	17. 65		
Do	24,916	112.00	20. 76	14.24	<u>a</u> -
Do	49, 444	519. 00 68. 00	41. 20	14. 24	8.
Do	19,316	812.00	16. 10 57. 71		
Do	69, 255 26, 295	118.00	21. 91		
muary 12	95.556	430.00	79. 63		
no i	30,378	137. 00	25. 32		
Do	47,392 22,374	213.00	89. 49		
DO	22,374 42,304	78.00 190.00	18. 65 85. 25		
100	69,396	312.00	57. 83		
Do	40, 357	182.00	99 69		
Do	24, 173	154, 00	28. 48		
Do	51,911	234.00	28. 48 43. 26 20. 53		
Do	24,633 21,525	86.00	20. 53		ļ
nnary 16	103 461	75. 00 466. 00	17. 94 86. 22		
Do	103, 461 36, 215	163.00	80. 18		
Do	85, 020 89, 920	158.00	30. 18 29. 18		
Do	89,920	405.00	74. 93	21. 13	<u>5</u> .
De To	73, 370	605.00 89.00	61.14	21.18	. م
Do	25, 475 69, 847	314.00	21. 23		
Do	33,962	153.00	58. 21 28. 30		
Do I	35, 450	160.00	29. 54		
Do	25, 309	159.00	29, 42		
Do	70, 180	579.00 76.00	58. 48 18. 00	20. 21	1 6.
Do	21,604 45,078	76.00 225.00	18. 00 87. 57		·····
Doanuary 21	26, 614	93.00	22. 18		
Do	24, 148	85, 00	20, 12	<del> </del>	
Do	74, 167	612.00	61.81	21.36	5.
Do	91.638	412.00	76. 37		
Do	118, 123	532.00	98. 44 29. 35		
Do Do	35, 224 85, 884	159.00 161.00	29. 35 29. 90		ļ
	57,782	101.00	48. BU		

Date.	Quantity.	Value.	Duty.	Counterval (paragraj	ling duty ph 393).
Dave.	<b>4</b>			Quantity.	Duty.
1907.	Pounds.	ı		Cords.	i
annery 22	24, 536	\$86.00	\$90. 45		
anuary 23anuary 24	58,000	551.00	48. 33	16.70	84.1
anuary 24	95, 302	429.00	79. 42		
Do	51.543	232.00	42.95	<b></b>	
Do	38, 403 62, 380	173.00	82.00		
Do	62, 380	281.00	51.98		
Do	76, 236	343.00	63. 53		
anuary 25	22, 492 22, 990	79.00	18. 74		
anuary 25. Do	26,083	103.00 117.00	19. 16 21. 74		
Do	19,365	68.00	16. 14		
Do	54, 422	245.00	45.35		
Do	73,726	332.00	61. 44		
Do	105, 421	474.00	87. 85		
Do	44,958	202.00	87. 47		
minery 28	66,002	297.00	55.00		
Do	48,934	220.00	40.78		
Do	37, 142	167. <b>0</b> 0	30.95	l <b></b>	1
Do	35, 373	159.00	29. 48	l	
Do	34,633	156.00	28, 86		
Donuary 29	24,770	87.00	20.64		
Do .	33, 041	149.00	27. 53		
Do	73.012	329.00	60.84		
sbruary 1	52, 474 40, 528	236, 00	43. 73 33. 77		
Doboruary 1	40, 528	182, 00	33, 77		
Do	43, 533	196.00	36. 28		
Do	52, 513	236.00	43. 76		
Do	23,740	83.00	19.78		
Do	107,300	1.019.00	89. 42	30.90	7. 7
Dobbruary 2	40,672	417.00	33. 89	11.71	2.9
Do.	35, 283	159.00	29. 40		
Do	35,638	160, 00	29. 70		
Do	45, 586	205.00	37.99		
Do	76,009	342.00	63, 34		
Do	51,663	232.00	43, 05		
Do	79, 907	659.00	66. 59	23. 01	5.7
Do	102,072	842, 00	85. 06	29. 40	7. 3
Dobruary 4Do	130, 789	1,079.00	108.99	37.67	9.
Do	36,552	164.00	80.46	]	
Do	71,973	324.00	59. 98	}	
Do	66,928	301.00	<b>5</b> 5. 77	<b></b>	· · · · · · · · · · · · ·
Do	65, 211	293.00	54. 34		
Do	20, 455	72.00	17.05		]
Dobruary 5	17,311 37,002	61.00	14. 43		
soruary 5	37,002	167. 00	30.84		
Do	38, 339	173.00	<b>3</b> 1. 95		
ро	65,776	296.00	54. 81		
Do	50, 567	228.00	42.14		
Do	51,304	231.00	42.75		
Do bruary 6	42,358	191.00	35. 30		
Do	48, 495	218.00	40. 41		······
Do	42,662	192.00 331.00	35. 55		
Do	73,553 80,333		61. 29 66. 94		
Do	46, 938	361. 00 211. 00	39. 12		í <b></b> -
Do	65, 943	211.00	54. 95		
Do	23,328	297. 00 82. 00	19. 44		
Dobo	40, 672	427.00	33. 89	11.71	2 (
henery 7	47, 180	212.00	<b>39</b> , 32	11.71	
Do	54,600	246.00	45. 50		
Do	55, 872	251.00	46. 56		
Do	44, 813	202.00	<b>87.34</b>		
Dobbruary 8	45, 661	205.00	38.05		
Do.	55, 451	250.00	46. 21		
Do	57, 334	258. 00	40. 21 47. 78	1	· · · · · · · · · · · · · · · · · · ·
Do	23, 054	81.00	19. 21	l	l
ahmary 0	47,703		39.75	J	
Do	129, 118	215.00 1,356.00	107. 60	37.19	9.
Do	22, 588	79.00	18.82	ľ	, w
Do	113, 218	793.00	94. 35	16.98	4.
Do	45, 574	205.00	91. 33 87. 98	10.10	
	30,012				
Do		gen ∧∧ i		I	
Do	62, 247 87, 336	280.00 168.00	51. 87 31. 11		

Date.	Quantity.	Value.	Duty.	Counterva (paragra	iling duty ph 393).
2000				Quantity.	Duty.
1907.	Pounds.			Cords.	
Pahrnary 11	48, 805	\$220.00	\$40.67		
Do	87, 112	167.00	80.93	7. 55	
February 12	50, 319 171 496	352.00 1,200.00 209.00	41.93 142.91	7. 55 25. 72	\$1. 8 6. 4
Do	171, 496 46, 372	209.00	38. 64	1	•
Do	61.219	275.00	51.02		
February 13	35, 730	161.00	29.78		'
Do	36, 476 57, 288 105, 992	164.00 258.00	30. 40 47. 74		, · · · · · · · · · · · · · ·
Do	105, 992	477.00	88, 33		
Do	88,945	175.00	32. 45		
ebruary 14	50, 405	853.00	42.00 150.71	7. 56 27. 13	1.8
Pebruary 14	180, 849 87, 417	1, 266. 00 262. 00	31. 18	5. 61	6.7 1.4
Do	87, 417 196, 185	1,619.00	163. 49	56.50	14.1
<u>D</u> o	53.037 [	239.00	44. 20		
Do	78, 393	453.00	65. 33		
Do	48,070 87,881	216.00 l 170.00 l	40.06 31. <i>5</i> 7		• • • • • • • • • • • • • • • • • • • •
Do. Pebruary 15. Pebruary 16. Do. Do.	20, 278	71.00	16, 90		
ebruary 15	42, 357	191.00	35. 30		
ebruary 16	20, 300	71.00	16.92		·····
Do	130,960	917.00 836.00	109. 13 84. 40	19. 64 29. 17	4.9 7.2
Do Pebruary 18 Pebruary 19 Do Do	101, 282 189, 006	1, 559. 00	157. 51	54. 43	13.6
February 18	139, 562	1, 151, 00	116.30	40. 19	10.0
Pebruary 19	61, 456	277.00	51. 21	<b></b>	١
Do	124, 181 47, 971 118, 523	559.00 216.00	103. 48 39. 98		
	118 523	533. 00	98.77		· · · · · · · · · · · · · · · · · · ·
Do	56, 362 1	254.00	46. 97		
ebruary 20	28,007	171.00	31.67		
Portury 20.  Do Do Do	55, 468 87, 519	250.00 394.00	46. 22 72. 93		
	55,619	250.00	46.35		
Do	113, 412	794.00	94. 51	17.01	4.2
February 21	82, 980 74, 397	373.00	69. 15		
Polymory 99	74, 397 82, 346	335.00	62.00 68.62		
Do.	25, 160	371.00 176.00	20.97	8.77	
	75, 479	<i>5</i> 28.00	62, 90	11.32	2.8
Do	62,496 1	437.00	52.06	9. 37	2.3
Do '	23, 467 20, 910	82.00 73.00	19. 56 17. 43		
Do Pebruary 25 Do Pebruary 27	23, 923	84.00	19. 94		
ebruary 25.	112,947	508.00	94. 12		
Do	64, 504	290.00	53.75		
DO	125, 368 144, 347	878.00	104. 47 120. 29	18. 81 41. 57	4.7
	122,016	1,191.00 1,007.00	101.68	35. 14	10.3
Do	105, 269	868.00	87.72	30.32	8.7 7.5
Do	25, 240 1	88.00	21.03		
farch 1	19,712 100,639	69.00	16. 43	15. 10	3.7
Do	63,002	704.00 520.00	83. 87 52. 50	18. 14	4.5
Do	68, 354	308.00	56. 96	10.14	
Do	64, 335	290.00	53. 61		
Do	29, 311 19, 350	132.00 68.00	24. 43 16. 13		· · · · · · · · · · · · · · · · · · ·
farch 2.	24,722	260.00	20.60	7. 12	1.7
Do	38, 765	368.00	32, 30	11.16	27
Do	24,722	204.00	20.60	7. 12	1.7
Do	71,004 39,218	320. 00 166. 00	59. 17 32. 68		
Do	56, 285	253.00	46. 90		
Do	71.371 1	321.00	59. 48		
Do	92, 546 164, 284	416.00	77. 12		
Do	164, 284	1,355.00	136, 90	47. 31	11.8
Do	38, 280 24, 722	402. 00 235. 00	31. 90 20. 60	11. 02 7. 12	2.7 1.7
Do	40,048	180.00	33, 37		1 1. 1
Inrch 6.	92, 345	416.00	76. 95		
Do	83,549 19,800	376.00	69. 62		!

Date.	Quantity.	Value.	Duty.	Countervalling duty (paragraph 393).	
				Quantity.	Duty.
1907.	Pounds.			Cords.	
March 6	25 070	\$88.00	<b>\$2</b> 0. 89	1	<u> </u>
March 7	62, 204 39, 875 64, 268	638.00	51.84	17. 91	\$4.48
Do	39,875	329.00 289.00	23. 23 53. 56	11. 48	2.87
Do Do	54, 447	245. 00	45. 37		
Do	80,578	363.00	67. 15		
Do	57,041	257.00	47. 53		
Do	22.828	80.00	19.02	22.05	
<u>D</u> o	76,560	632.00	63. 80	22.05	5. 51
DoMarch 9	63,002 75,009	520.00 838.00	82, 50 62, 51	18.14	4.54
Do	91,680	413.00	76. 40		
Do	40.672	417.00	23. 89	11.71	2.90
Do	113, 217 62, 899	793.00	94. 35	16. 98	2.3
Do	62,899	440.00	52. 42	9. 44	2.30
Do	150, 440	1,053.00	125. 37	22, 57 14, 24	5.6
Do	49, 444 48, 947	408.00 220.00	41. 20 40. 79	14.24	3.50
Do Do	56,958	256.00	47. 47		
Do	18, 490	65, 00	15, 40		
March 12	128,800	741.00	107. 33	64. 40	16.10
Do	103,051	464.00	85.88		
Do	118, 406 64, 078	533.00 288.00	98. 67 53. 40		
Do	39, 406	177.00	32.84		
Do. March 14. Do. March 15.	23, 193	81. 00	19. 33		
March 14	43, 356	195.00	36. 13		
Do	40,672	427.00	33. 89	11.71	2.93
March 15. Do	43, 819 64, 029	197. 00   288. 00	36. 52 53. 36		
Do	22, 281	78.00	18. 57		
Do	75, 124	770.00	62.60	21.64	F 41
Do	49,529	223.00	41, 27		
March 18	50,148	226.00	41.79		
Do	72, 110	324.00 165.00	60. U9		
Do	36,638	250.00	30. 53 46, 24		
Do	55, 493 92, 791	418.00	77. 33		
Do	I 54.858 I	247.00	45. 72		
Do	137,669	964.00	45. 72 114. 72	20.65	5. 10
Do	114, 186	799.00	95. 16	17. 12	4.2
Do March 19	22,762 51,975	80.00 533.00	18. 97 43. 31	14. 97	8.7
Do	16,691	58.00	13. 91	12.07	
Do	63,067	284, 00	<b>52.</b> 56		
Do	39,784	179.00	<b>33</b> . 15		
Do	65, 295	294.00	<b>54. 4</b> 1		
Do	37,039	167. 00 95. 00	20. 87 17. 65		
Do	21, 181 95, 244	429.00	79. 37		
Do	136,372	1, 125. 00	113.64	39.28	9.8
March 21 March 22	23.092	83. 00	19. 74		
March 22	88,844	175.00	<b>32</b> . 37		
Do	55, 919 88, 886	252.00 400.00	46. 60 74. 07		
Do	56,044	252.00	46. 70	l	
Do	49, 444	619.00	41. 20	14.24	2.50
Do	49, 444	519.00	41. 20	14.24	2.0
March 23	63,002	520.00	52. 50	18. 14	4.7
Do	66, 192 55, 372	546. 00 249. 00	<b>55.</b> 16 <b>46.</b> 14	19.06	4.77
Do	26,246	92.00	21. 87		
Do	37,998	171.00	81. 67		
Do	54, 139	244.00	45. 12		
Do	53, 468	241.00	44. 56		
Do. March 27.	20, 201	71.00	16. 83	····	
March 29	56, 319 65, 395	253. 00 539. 00	46. 93 54. 50	18.84	
March 29. Do	25,683	90.00	21. 40	10.01	
April 1	41,724	188. 00	84, 77		
Do	87,875	395. 00	73. 23		
Do	40,870	184.00	84.06		
Do	51,669	233.00 169.00	43.05	ļ	
~~	87,514	TON' ACI.	81. 26	<b>'</b>	

Date.	Quantity.	Value.	Duty.	Counterval (paragra	ervailing duty agraph 393).	
	·			Quantity.	Duty.	
1907.	Pounds.	i		Cords.		
pril 1Do	38, 280	<b>\$3</b> 16.00	<b>\$31.90</b>	11.02	\$2.7	
Do	23, 641	83. 00 120. 00	19. 70 22. 19			
Do	26, 627	120.00	<b>22</b> . 19			
prii 2	43, 951	198.00	36. 63			
Do. pril 2. pril 3.	30,824	166.00	30. 69 38. 20			
Do	36, 824 45, 845 141, 955	206. 00 1, 171. 00	118.30	40. 88 21. 73	10. 2	
Do	75 443 1	622.00	62. 87	21.73	5.4	
Do	45, 122	203. 00	87. 60			
Do	37, 393 53, 057	168.00	31, 16			
Do	53,057	239.00	44. 21 46. 37	16.02	4.0	
Do	55, 640	529.00	46. 37	16.02	4.0	
Do	18,744 21,018	66. 00 74. 00	15. 62 17. 52		<b> </b>	
rii R	36,685	376. 00	30. 57	10. 57	2.6	
Do	75, 525	340.00	62. 94	10.07		
2018	73, 398	330.00	61. 16			
Do	36,892	166.00	30. 74			
Do	22, 932	80.00	19. 11			
Do	21,486	75.00	17. 91			
Do	37, 150 24, 193	167. 00 85. 00	30. 96 20. 16			
To	37, 765	170.00	31. 47			
oril 10	35, 499	160.00	29. 58	• • • • • • • • • • • • • • • • • • • •		
prii 9 Do prii 10. Do	60,610	500 00	50. 51	17. 46 21. 13	4.3	
130	73, 370	770. 00	61. 14	21. 13	5.2	
Do. pdl II. Do. Do.	23,664	83. 00	19. 72			
rii 11	23,707	83. 00	19. 76			
Do	19, 563	68.00	16. 30		<i>-</i>	
Do	54, 352 64, 310	245. 00 289. 00	45. 29 53. 59			
Do	53.342	240.00	44. 45			
Dorii 13	78, 392	353.00	65. 33			
100	78. 392 37, 968	171.00	31.64			
Do	23, 395	82.00	19. 50			
ril 15	51,881	233.00	43. 23 28. 90	9, 99	2.5	
Do	34, t.84 84, 535	364.00 697.00	28.90	9.99	2.5	
Do	73 370	605.00	70. 45 61. 14	24. 35 21. 13	6.0	
Do	73, 370 87, 339	168.00	31. 12	21. 13	0.2	
Do	52.469 I	236.00	43, 72			
Do	25, 656	90.00	21. 38 17. 35			
Do	20,816	73.00	17. 35			
Do	25, 757 24, 552	90.00	21.46			
Do	24, 552	86.00	20. 46	9. 19	2.3	
Do. rii 17 Do. rii 18.	31,900 64,190	327.00 289.00	26. 58 53. 49	9.19	2.3	
Do	65 184	293.00	54 32			
rii 18	65, 184 43, 713	197.00	26. 43			
DO	44, 200	199.00	54. 32 36. 43 36. 83			
Do	25, 291	89.00	21.08			
Do	23, 428	82.00	19. 52			
Do	24, 153 80, 056	85.00	20. 13 66. 71			
Do	90, 056 90, 810	360.00 409.00	66.71 75.68	• • • • • • • • • • • • • • • • • • • •		
Do	47,850	395.00	10.05	13.78	3.4	
Do	37. 335	168.00	39. 88 31. 11	10.70		
Do	37, 198	167.00	31.00			
<u>D</u> o	38, 256	172.00	31.88			
Do	26, 294	92.00	<b>2</b> 1. 91			
Do	27, 431	96.00	21. 91 22. 86 17. 34			
Do	20, 803 18, 535	73.00 65.00	17. 34 15. 45	• • • • • • • • • • • • • • • • • • • •	• • • • • • •	
Do	21,657	76.00	18.05		• • • • • • • •	
il 23	48.230	506.00	40, 19	13.89	3. 4	
Do	23,706	83.00	19. 76			
Do	22, 267	78.00	18, 56			
	43, 166	194.00	25, 97			
E11 24	49,500	495.00	41. 25	14. 26 18. 83	8. 8	
	65, 395	687.00	54. 50	18.83	4.7	
The	01.000					
Do	64,069	288.00	53. 39			
prii 24. prii 25. Do . Do . prii 28.	64, 069 74, 326 23, 390	288. 00 334. 00 82. 00	53. 39 61. 94 19. 49		• • • • • • • • • • • • • • • • • • • •	

Date.	Quantity.	Value.	Duty.	Countervailing duty (paragraph 393).		
<i>D</i> 240.				Quantity.	Duty.	
1907.	Pounds.			Cords.		
pril 28	22,848	\$80.00	\$19.04		<b></b>	
Do	22, 848	80.00	19.04		<b> </b>	
Do	36, 685 95, 700	349.00 1	30. 57	10.57	\$2.	
Do	95,700	790.00	79. 75	27.56	6.8	
oril 27	19, 052 63, 843	67. 00 287. 00	15. 88 53. 20		!	
orii 29	82,653	372.00	68.88		,	
To	91,036	410.00	75.86			
Do	25, 164	88.00	20.97			
Do	22, 464	79.00	18.72			
Do	23.064	81.00	19. 22			
Do	27, 057 85, 702	95. 00	22. 55			
у_1	85,702	386.00	71. 42	16.77		
Do	58, 217	480.00	48. 51	16.77	4.	
Do	31,900 36,685	327.00 394.00	26. 58 30. 57	9. 19 10. 57	2:	
Do	60,610	621.00	50. 51	17.46	1	
y 2	25,925	91.00	21.60	17.30		
Do	25.344	89.00	21.12			
Do	44,204 57,569	199.00	36. 84			
T 3	<b>57</b> ,569	259.00	47. 97			
Do	40,006	180.00	33. 34		! <b></b>	
Do	38,031	171.00	31.69			
Do	26,329	92.00	21.94		¦	
Do	26,625	93.00	22.19	17.46	4	
y 4 Do	60,610 60,610	500. 00 636. 00	50. 51 50. 51	17. 46 17. 46	1	
Do	24,365	231.00	20.30	7.02	i.	
Do	23, 476	82.00	19. 56	1.02		
<b>v</b> 6	23,476 19,299	68.00	16.08			
Do	24,745	87.00	20, 62	I		
Do	27,508	124.00	22, 92		1	
Do	45,129	203.00	37. 61	l	·	
y_7	41,910	189.00	34. 93 37. 86			
Do	45, 437 46, 717	204.00	37.86			
y 8	46,717	210.00	38. 93	21.70	7.	
Do	110,055 65,395	908, 00 540, 00	91, 71 54, 50	18.83	7.	
Do	73.916	333.00	61, 60	10.00	1 -	
Do	25,540	89.00	21. 28		1	
Do	26, 314	92.00	21.93			
y 9	22,704	79.00	18. 92			
Do	36,785	166.00	30.65			
Do	72,236	325.00	60. 20	41, 80		
у 10	145,145	1,197.00	120.95	41.80	10.	
Do	40,091	180.00	33. 41 19. 28	<b></b>	· · · · · · · · ·	
Do Do	23,136 27,128	81. 00 95. 00	19. 28 22. 61			
y 11	26,103	91.00	22. 01 21. 75		`••••••	
Do	67,161	302.00	<b>55.</b> 97			
Do	97,295	803.00	81.06	28.02	7.	
v 13	40,562	183.00	33.80			
Do	76,144	343.00	63. 45			
y_14	60,610	500.00	<b>5</b> 0. 51	17.46	4	
Do	97,295	803.00	81.08	28.02	7.	
Do	79,138 45,907	356. 00 207. 00	65. 95 38. 26			
Do.	50,350	207.00	38. 26 41. 96		• • • • • • •	
Do	80,040	780.00	66.70	23. 05		
Do. Do.	23.385	82.00	19.49	20.00	_	
Do	23.833	83.00	19. 86			
Do	23.803	83.00	19.84			
Do	20,520	72.00	17. 10			
у 15	38,458	173.00	32.05			
y 16	98,955	445.00	82. 46		l	
Do	24,911	87.00	20. 76		······	
Do	65,831 52,658	296. 00 237. 00	54. 86 43. 88			
Do	73,370	734.00	43.88 61.14	21. 13	5.	
у 18	25,662	90.00	21. 39	21.13		
Do	25,188	88.00	20. 99			
Do	23,956	84.00	19. 96			
Do	35,848	161. 00	29. 87			
Do	70,734	318.00	58. 95			
Do	35,940	162, 00	29, 95			

Date.	Quantity.	Value.	Duty.	Countervailing duty (paragraph 393).		
			<u>-</u>	Quantity.	Duty.	
1907.	Pounds.	. 1		Cords.		
[ay_20	18,282 67,764	\$64.00	\$15.24		<i>.</i>	
<u>D</u> o	67,764	305.00 954.00	56. 47	33. 80		
Do	115,637	964.00	96. 36	<b>33. 3</b> 0	\$8.3	
Lay 21	23, 352 23, 202	82.00 81.00	19. 46 19. 34			
D0	23, 202	82.00	19.34			
Do	23,380	20.00	19. 48 18. 70 56. 97		• • • • • • • • • •	
Da	22, 440 68, 368	79.00 676.00	10. 70 68 07	19.98	8.0	
Do	67, 787 86, 967 71, 087 73, 007	550 M	56 40	19.52	4.	
ay 22	96 067	559. 00 166. 00	56. 49 30. 81 59. 24	19.02	9. (	
Do	71 087	320 00	KO 24			
ay 23	73,007	829.00	60. 84			
Do	20, 469	72.00	17. 08			
Do	23,030 43,384	81. OO J	19. 19 36. 15			
Do	43, 384	434.00	36, 15	12.50	a.	
ny 24	25,568	89. 00 74. 00	91 91			
Do	21.065	74.00	17.55			
ау 27	22,540	79, 00	18.78			
ay 74. Do. ay 27.	22,540 20,588	72.00 368.00	17. 55 18. 78 17. 16 68. 21			
D0	I \$1.855 I	368.00	68. 21			
<u>D</u> o	57,943 138,765	261.00 1,145.00	48. 29 115. 64	39. 96 32. 16 19. 29		
Do	138,765	1, 145. 00	115, 64	39. 96	9.	
<u>D</u> o	.  111,649	921.00	03 U4	32. 16	8.	
Do	66,990	553. 00 161. 00	55, 83 29, 76 87, 02 17, 00	19. 29	4.	
ıy 28	85, 707 104, 427	161.00	29. 76			
LY_29	104, 427	470.00 71.00 79.00	87. 02			
Do	20, 394 22, 473	71.00	17.00			
Do	22,473	79.00	18.73			
Do	20, 416 72, 517	71. 00 326. 00	17. 01			
k <b>y</b> 30	72, 517	326.00	60. 43			
ро	61,838	278. 00 487. 00	51. 53			
Do	59,015	487.00	49. 18	16. 99 26. 41	4	
D0	91,712	757.00	76. 43	26.41	0.	
Do	62, 988 72, 307 22, 330	283. 00 325. 00	52. 49 60. 26			
Do	72,307	325.00	00.20	······		
Do	22,330 106,865	184.00	19.01	6.43	1. 7.	
Do	100,805	184. 00 882. 00 156. 00 810. 00 718. 00	18. 61 89. 05 28. 87 57. 46 59. 81	30.78	7.	
DB J	34, 643 68, 948 71, 775 23, 280	100.00	20. 87		• • • • • • • •	
Do	00, 170	210.00	07. 90 E0 91	20.67		
ne 5	22 200	710.00	19. 40	20.07	0.	
Do	49, 947 66, 326	81. 00 225. 00	41 82			
Do	66 226	200.00	RK 97			
Do	44 724	298.00 201.00	85. 27 87. 27 89. 78			
ne 8	44, 724 107, 784 22, 176	485.00	80.78			
Do	22, 176	78.00	18 48			
Do	23, 290 76, 560 78, 768 68, 077	78.00 81.00	89. 78 18. 48 19. 40			
ne 10	76,560	632.00	63. 80 65. 64 56. 73	22: 05	5.	
Do	78,768	255, 00	65, 64			
ne 11	. 68,077	806.00	56, 73	l		
Do	. 274,003	203, 00		7.07	ŀ	
<u>D</u> o	23,925	197.00	19. 94 21. 22 35. 89 18. 16	6.89	1.	
Do	. 25, 464	89. 00 431. 00	21. 22			
Do	25, 464 43, 065 21, 792 47, 850	431.00	85. 89	12.40	8.	
16 13	21,792	76. 00 490. 00 490. 00 479. 00	18. 16			
Do	47,850	490.00	39. 88 39. 88 39. 88 88. 80	13.78	8.	
Do	47,850	490.00	<b>259.</b> 88	13.78 13.78	3.	
Do	47,850 106,554	479.00	98.00	10.75	۰.	
		479. 00 367. 00	67. 96			
	81,551 62,782	207.00	52.32			
16 15	74, 425	283. 00 335. 00	62.02			
Do.	45, 240	441.00	97 70	13.03	3.	
16 14	95 492	80 M	87. 70 21. 24	10.00		
Do	77, 337	248 00	84 45			
	25, 483 77, 337 45, 166	89. 00 848. 00 203. 00	64. 45 37. 64			
Do	=0,400	79.00	18, 87			
Do	22 420		10.01			
Do	22, 639	84 00	20.02	1		
Do	22, 639 24, 032	84.00	20.03 71.72	24 21	A.	
Do	22, 639 24, 032 85, 130	84.00	20.03 71.78 45.61	24. 81	6.	
Do	22, 639 24, 032 95, 130 54, 733 54, 504	84.00 883.00 245.00 245.00	20.03 71.78 45.61 45.42		6.	
Do	22, 639 24, 032 95, 130 54, 733 54, 504	84.00 883.00 245.00 245.00	65, 61 65, 42		6. 1	
Do	22, 639 24, 032 85, 130 54, 733 54, 504 47, 850 25, 530	84.00 883.00 245.00 245.00 479.00 89.00	45, 42 45, 42 39, 88 21, 28	24. 81 13. 78	6. 8.	
Do	22, 639 24, 032 85, 130	84.00 883.00 245.00 245.00	65, 61 65, 42		6. 3.	

Date.	Date. Quantity. Value.		Duty.	Counterval (paragra	ling duty ph 393).
<b>280</b> 0				Quantity.	Duty.
1907.	Pounds.	i		Cords.	
June 22		\$277.00	\$51.28		
June 24	61,537 74,961	837.00	62. 47		
Do	114, 443	815.00	95. 37		
June 25	36, 825 54, 298	166.00 244.00	30. 69 45, 25		· · · · · · · · · · · · · · · · · · ·
100 Trma 28	102, 816	463.00	85.68		
June 27	64, 491	290.00	53, 74		
Do	24, 264	85.00	20.22		
Do	26,573 59,015	93.00 605.00	22. 14 49. 18	17.00	64 26
Do	43,078	194.00	85.90	11.00	
Do	64, 483	290.00	53.74		l
Do	64, 483 68, 726	209.00	57.27	. <b></b> .	
Do	102,312 )	460.00	85. 26	[	
Do	57, 656 60, 338	259.00 272.00	48. 05 50, 28	[	ļ
Do	45, 240	441.00	87.70	13.03	3.26
Do	25. 137	88.00	20, 95		
Do	25, 137 28, 787	83.00	19.82		
July 2	39,638	178.00	83.03 45.42		
July 6	54, 504 145, 789	245.00 656.00	121. 49		
Trib 8	25, 155	88.00	20.96		
July 6	19, 580	69.00	16. 32	10.57	
	36,685	367.00	80.57	10.57	2.64
July 10	27, 936	98.00	23. 28	·····	
Do	27, 433 67, 203	96.00 302.00	22.86 56.00		
Do	50, 293	226.00	41.91		
Do	65, 342	294.00	54.45		
Do	71,969	824.00	59.97 20.60		[
Do	24, 725	87.00	20.60		
July 13	42,762	192.00 302.00	85. 64 55. 92		
July 15	67, 109 26, 432	93.00	22, 03		
Do	28, 200	99.00	23.50		
July 16	60,610	606.00	<b>5</b> 0. 51	17. 46	4.87
INIV IX	55, 402	249.00	46, 17 74, 41		
D0	89, 290 62, 191	402.00 280.00	51.83		
Do	69,034	811.00	57.53		
Do	67.844	305.00	56, 54		
Do	25.728	90.00	21. 44		
Do	25, 967 26, 009	91.00 91.00	21.64 21.67		
Do	20,941	73.00	17.45		
	48,843	220 00	40.70		
Do	56, 387	254, 00 378, 00	46.99		
July 24	84, 046 88, 709	378.00	70.04		
July 22.  Do. July 24.  Do. July 25.	88.709 75,624	899.00 340.00	73. 92 63. 02		L
	76, 243	843.00	63.54		<u> </u>
Do Do	97,057	437.00	80.88		
Do	28. 571	100.00	23. 81 19. 48		
Do	23 370 49,177	82.00 221.00	19, 48 40, 98		
Do	53,792	242.00	44. 83		<u>                                     </u>
July 27	75.587	840.00	44. 83 62. 99		
Do	23,502	82.00	19, 59		
July 29	29,366	103.00 327.00	24, 47 60, 52		
The	72,619 37,555	169.00	81. 30		
July 29	36,853	166.00	30.71		
August 1	55.251	249.00	46. 04		
Do	47,958	216.00 191.00	39. 97 35. 36		· • • • • • • • • • • • • • • • • • • •
Dο	42,427 26,710	93.00	35.36 22.26		
Do	16,959	89.00	14. 13	l	
August 2	62.359 l	281.00	51.97		
August 2	38,408 50,299	173.00 226.00	32.01		
D-	50,299 26,508	226.00 93.00	41. 92 22. 09		·····
DoAngust 5	62,154	280.00	51. 80		
August 5	70,117	316.00	58. 43		
Do	64,530	290.00	53.78	l	l
	-,				

Date.	Quantity.	Value.	Duty.	Countervailing du (paragraph 393).	
Dave.	<b>Q</b>			Quantity.	Duty.
1907.	Pounds.	1		Cords.	
August 6.	69,592	\$313.00	<b>\$57.99</b>		l
Do	47 850	479.00	39. 88	13. 78	\$3. 4
Anomet 7	38,740	174.00	82. 28		• • • • • • • • • • • • • • • • • • • •
August 9	38,740 51,741 48,172 60,788	233. 00 217. 00	82. 28 43. 12 40. 14		
Amenat 10	60 788	274.00	50.66		•••••
Do	73,395	330.00	61. 16		•••••
Do	44,731	201.00	37. 28		
Do Do	37,621 26,761	169.00	31.35		
<u>D</u> o	26,761	94.00	22.30		
Do	24, 472	86. 00 85. 00	<b>20</b> . 39 <b>20</b> . 21		
August 12. Do	24,247 45,781	206.00	20. 21 28. 15		
Do	46, 416	209.00	38.68		
Do	61,542	277.00	51, 29		
American 12	78.335	853.00	65, 28	1	
Do	44,203	199.00	36.84		
Do	19,580 43,263	69.00	16. 32		
August 14	43,263	195.00	86.05		<b> </b>
August 15	57,853	260.00	48. 21 68. 01		
Do	81,614	367. 00 238. 00	44.11		
Do	52,930 37,005	167.00	80.84		•••••
Do Do	43,576	196.00	36.31		
Do	64,885	292.00	54. 07		
Do	64,630	291.00	53. 86		
Do	47.238	213.00	39.37		
Do	69,584	313.00	57.99		
Do	52,858 54,986	238.00	44. 05 45. 82		
Do	47,850	247.00 480.00	39.88	13.78	9.4
August 20. Do. Do.	23,572	83.00	19.64	10.78	0.9
Do	27,057	95.00	22, 55		
August 21	26,847	94, 00	22, 37		
Do	59, 584	268.00	49.65		
Do	78,007	851.00	<b>65.</b> 01		
Do	43.559 (	196.00	36.30		
	79,609	858. 00 859. 00	66. 34 29. 91		2.5
Do	35, 887 60, 126	271,00	50. 11	10.34	2.0
Do	19.587	69.00	16.32		1
100	24, 508	86.00	20. 42		1
Do	19, 185	67.00	20. 42 15. 99		
Do	22, 521	101.00	18.77		
August 24	43, 530	196.00	<b>36. 28</b> <b>44.</b> 71		
Do	53, 656 92, 879	241.00 418.00	77.40		
The	26 066	121.00	22. 47		
August 27	26, 966 22, 355	78.00	18. 63		
August 26. Do. August 27. Do.	24,892	87.00	20.74		
Do	27,369	96.00	22. 81		
Do	55,698	251.00	46. 42		
Do Do	67,878	305.00	<b>56</b> . 57 <b>64</b> . 25		
August 28	77, 100 46, 914	347.00 211.00	89. 10		·····
Do	36, 685	367.00	80. 57	10.57	2.6
Do	47,850	479.00	<b>39</b> , 88	13.78	8.4
August 29	77.041.1	347, 00 1	64. 20		
Do	25, 490	89.00	21. 24	J	
<u>D</u> o	23, 764	83.00	19. 80		<b></b>
Do Do	23, 554	82.00 82.00	19.63		
Do	23, 385 44, 112	199.00	19. 49 36. 76		
Do	36,659	165.00	30, 55		
Do	26, 599	165.00	30. 50		
August 30	55, 922 37, 011	252, 00	46, 60		
Do	37,011	167.00	30.84		
DoSeptember 2	39,537	178.00	32.95		
september 2	36, 905	166.00	30.75		
DoDo	38, 421 50, 109	173.00 225.00	82. 02 41. 76		
Do	<b>52</b> , 599	237.00	43. 83		
				1	1
Do	53.747	242.00	44.79		
Do	53, 747 39, 075	242.00 176.00 75.00	44.79 82.56 17.97		

Date.	Quantity.	Value.	Duty.	Countervalling dut (paragraph 303).		
	Quantity.	<b>V</b>		Quantity.	Duty.	
1907.	Pounds.			Cords.		
ptember 8	29, 198	\$102.00	<b>824.</b> 88			
Do	23, 376 70, 688	82.00 318.00	19. 48 58. 91			
Do	48,693	219.00	40. 58			
ptemper 4	54, 230	542.00	45. 19	15.62		
Doptember 6	21, 364	75.00	17. 80	10.02		
	25, 394	89.00	21. 16		1	
Do	86, 644	89. 00 166. 00	20.54			
Doptember 7	24,042	84.00 79.00	20. 54 20. 04			
Do	22, 531	79.00	18. 78			
100	22, 279	78.00	18. 57			
Doptember 9	21, 104	74.00 168.00	17. 59			
ptember 9	87, 336	168.00	81. 11			
DoDo	64, 234	289. 00 232. 00	68. 53	- · · · · · · · · · · · · · ·		
Do	51,631	232.00 249.00	43.03 46.03	<b>]</b>		
Do	55, 234 51, 829	283.00	43. 19	·····		
Do	70,673	318.00	58. 89	l		
nternher 11	52,965	238.00	44.14	l		
ntember 13	47, 850	479.00	39. 88	13.78	2	
	35,052	158.00	29, 21			
Do	85, 520	160.00	29.60			
ptember 16	36, 174	163.00	80, 15			
Do ptamber 16. Do Do Do Do Do Do Do Do Do Do Do Do Do	20,065	70.00 82.00	16. 72			
Do	23, 430 17, 944	82.00	19. 53 14. 95			
ро	17,944	63.00	14. 95			
Do	23,899	84.00 94.00	19. 91			
Do	26,940	94.00	22. 45 17. 97			
Do	21, 564	75.00	17.97	12. 40	••••••	
Doptember 17.	43,065	431.00	<b>35.89</b>	12.40		
ptemper 17	77,003	347.00	64. 17 84. 97			
Do	41,961 84,662	189.00 381.00	70.55	····		
Do Do Do Do Do Do Do Do Do Do Do Do Do D	36,685	376. 00	20. 57	10. 57	2	
ntember 90	19, 830	60.00	16. 53	10.07		
Do	20, 456	69.00 72.00	17.05			
Do	21,504	75.00	17. 92			
Do	20, 296	71.00	16. 91	<b> </b>	l	
Do	20, 330	71.00	16.94			
Do	19, 472 19, 360	68.00	16. 28	<b> </b>		
Do	19, 360	68.00	16. 18 18. 71			
Do	18,852	66.00	16.71			
Do Do	19,804	69.00	16. 50 16. 31			
Do	19, 568	68. 00 68. 00	10. 31			
Do	19, 540 82, 035	269.00	16. 28 68. 36			
Do		168.00	31.13			
Do	87, 356 77, 765	850.00	64. 80			
otember 21	74, 707	886.00	62. 26			
Doptember 21	53,987	243.00	44. 99			
Doptember 23.	22, 441	79.00	18.70			
ptember 23	40, 232	181.00	23. 53			
Do	47, 389	213.00	89. 49			
ро	87, 408	168.00	31.17			
Do	41, 382	186.00	<b>84. 49</b> <b>87. 91</b>			
Premiuer 24	45, 487 64, 692	206.00 291.00	37. 91 53. 91	<b></b>		
ntam har 98	42, 639	102.00	86. 53			
Do	78,044	192.00 361.00	80.03 86.04			
Do	23, 697	83.00	65.04 19.75			
Do	26,680	93.00	22, 23			
	28, 462	82 00	19. 55		1	
Do	22, 302	78.00	18.59		l	
Do	20, 154	71.00	16.80			
Do	25, 492 22, 347	89.00 78.00	21. 24 18. 62			
Do	22, 347	78.00	18.62			
Do	20,705 l	72.00 87.00	17. 25			
	24.836	87.00	20.70			
Do	74.696	836.00	62. 25		ļ	
Do	49, 932	225.00	41.61	·····		
L'9	43. 128	194.00	85.94			
Doptember 27.	63, 153	284.00	52, 63			

Date.	Quantity.	Value.	Duty.	Counterval (paragra	Countervailing duty (paragraph 393).	
	<b>4</b>			Quantity.	Duty.	
1907.	Pounds.			Cords.		
September 28	21,888	877.00	\$18, 24	00/00.	Í	
Do	21, 888 23, 877	84.00	19.90			
<u>D</u> o	70, 568	318 00	58.81			
Do	57.176	257.00	47.65		- <u>-</u>	
October 1	55, 241 57, 951 66, 862 50, 704	249 00 261.00	46.03			
Do	66 862	301.00	48. 29 55. 72			
Do	50,704	228.00	42, 25			
Do	1 68.217 [	582.00	48. 51	16.77	\$4. 1	
Do October 2	39, 399	177.00	<b>32</b> . 83			
Do	20,025	70.00	16.69	<b></b>	<b></b>	
Do Do	25, 587 19, 696	90.00	21. 32 16. 41	· • • • • • • • • • • • • • • • • • • •	· · · • • • • • • • • • • • • • • • • •	
Do	20, 954	69. 00 73. 00	17. 46			
Do	24, 316	85.00	20. 26			
Do	69,640	313.00	58.03			
Do	50,098	225, 00	41.75			
October 3	50.200	228.00	41.83			
October 4	77, 283	348.00	64. 40		- <b></b>	
Do	98,871	445.00	82.39 39.88	13.78		
Do	47,850 23,925	490.00 245.00	19.94	6.89	8. 4 1. 7	
Do	16, 137	56.00	13. 45	0.09	1.7	
Do	19,498	68.00	16. 25			
Do	25,083	88.00	20.90			
October 7 Do	58,048	261.00	48. 37			
<u>D</u> o	53,647	241.00	44.71		<b></b>	
Do	50,560 70,772	228.00	42. 13			
Do	70,772	318.00 332.00	58. 98 61. 52			
Ortober R	48.226	217.00	40. 19			
Do	72,549	226.00	60.46			
October 9	26,617	165.00	30.51			
October 8. Do Do Dotober 9. Do	62, 401 58, 217	<b>28</b> 1. 00	<b>52.00</b>			
Do	58, 217	582.00	48.51	16.77	4.1	
Do	23, 925	239.00	19.94	6.89	1.7	
October 10	21, 212	74.00 79.00	17. 68 18. 82			
Do	22,588 21,268	74.00	17.72			
Do	22,612	79.00	18.84			
Do Detober 11	19,360	68.00	16. 13			
October 11	47,960	216.00	<b>39</b> . 97			
Do	60,399	312.00	57.83			
Detober 12Detober 14	76, 149 22, 627	343.00 79.00	63. 46 18. 86		· · · · · · · · · ·	
Do.	21,994	77.00	18. 33			
Do	77,767	350.00	64.81			
Do	51,546	232.00	42.96			
Do	44,516	200.00	<b>37.</b> 10			
October 15	78.586	354.00	65. 49			
Do	91,596	412.00	76.33			
Do	48,039	216.00 386.00	40.03 71.43			
DoDotober 16	85,719 81,928	369.00	68. 27		· · · · · · · · · · · · · · · · · · ·	
Do	84,698	381.00	70. 58			
Do	62, 799	283.00	52. 33			
October 19	62, 799 97, 247	438.00	81.04			
Do	99.088	446.00	82. 57			
Do	24, 393 25, 267	85.00	20. 33			
Do	20,207	88. 00 80. 00	21.06 18.98		•••••	
Do	22,780 22,852	80.00	19.04			
Do	23,510	82.00	19.59	1		
Do	18,605	65.00	15.50			
Do. October 21	44,641	201.00	27. 20			
Do	70, 296	316.00	68.58			
D0	49,818	224.00	41.52 58.90			
Do	70,680	318. 00 267. 00	58. 90 49. 37			
Ostober 23 Do	59, 238 87, 701	395.00	73.08			
Do	18,030	63.00	15.03			
Do	21.620	76.00	18.02			
	84,566	381.00	70.47			

Data.	Quantity. Value.	Value.	Duty.	Countervalling duty (paragraph 393).		
				Quantity.	Duty.	
1907.	Pounds.			Cords.		
stober 25	17,760 24,564	\$62.00	\$14.80			
Do	24,564	86.00	20.47			
Do	20,347	71.00	16. 98			
Do	21.027	74.00	17.52			
Do	25,982	91.00	21.65			
Do	54, 230	542.00 239.00	45.19	15.62	\$3.9	
Do	53,074	239.00	44. 23			
Do	92,359	416.00	76.97			
stober 26	39,260	177.00	<b>32</b> , 72			
Do	63,880	287.00	53. 23			
Do	14,989	52.00	12.49			
Do	22,804	80.00	19.00			
Do	22,852	80.00	19.04			
Do	22,467	79.00	18.72			
Do	23,774	83.00	19.81			
Dovember 1	72,734 77,221	827.00	60.61		}	
Do		847.00	64. 35	[	ļ	
Do	83,400	375.00	69. 50		<u></u> -	
Do	68,584	703.00	57. 15	19.75 23.66	4.1	
Do	82,142 68,019	821.00 806.00	68. 45 56. 68	23.00	5.1	
Do		200.00				
Do	22,302 25,307	78.00 89.00	18.59 21.14			
Do	23,718	83.00	19.77			
Do	23,587	83.00	19.66			
Doovember 5	45,462	205.00	37.89		! • ·	
Do	17, 153	77.00	14.29			
Do	17,497	79.00	14.58			
Do	25,863	116.00	21.55			
Do	17,210	77.00	14.34			
Do.	128,887	580.00	107.41			
Do	52,148	235.00	43. 46			
vember 6	50.686	228.00	42, 24			
Do	50,348	227.00	41.96			
Do	27,333	123.00	22.78			
vember 7	36,703	165.00	30.59		l	
Do	80,307	783.00	66.92	23.13	5.	
Dovember 8	64,597	662.00	53.83	22.30	8.0	
vember 8	28,915	101.00	24. 10			
Do	23,548	82.00	19.62			
Do	22,218	78.00	18. 52			
<u>D</u> o	23,884	84.00	19.90			
Do	22,876	80.00	19.06			
	91,473	412.00	76.23			
Do	17,623	79.00	14.69			
Do Do	36,176 24,000	163.00 108.00	30.15 20.00		<b></b>	
vember 9	65,967	297.00	54.97			
Do.	35,192	158.00	29. 33			
wember 11	24,130	109.00	20.11			
Do	44,164	199.00	36, 80	1		
Do	22,420	78.00	18.68			
Do	25, 198	88.00	21.00			
Do. ovember 12	82,142	821.00	68. 45	23.66	5.	
Do	48.360	472.00	68, 45 40, 30	13.93	8.	
Do	56,000	252.00	46.67			
Do Do	40,000	180.00	33.33			
Do	91,446	412.00	76.21			
Do	25,092	113.00	20. 91			
Do	25,804	116.00	21.50			
vember 13	119,892	540.00	99. 91			
Do	53,978	243.00	44.98	9.88		
Do	34,292	343.00	28.58	9.88	2.	
ovember 14	37,473	169.00	81.23			
Do	24,576	86.00	20.48 19.17			
Do	23,005	81.00	19. 17			
	21,117	74.00	17.60		• • • • • • • •	
Do		79.00	18.92	1	1	
Do	22,699	70.00				
Do Do	22,302	78.00	18.59			
Do	22,302   64,911	78.00 292.00	18.59 54.09			
Do Do	22,302	78.00	18.59			

Date.	· · · · · · · · · · · · · · · · · · ·		Duty.	Counterval (paragra	ling dut ph 393).
	,			Quantity.	Duty.
1907.	Pounds.			Cords.	
ovember 16	64, 737 67, 539 59, 972	<b>\$291.</b> 00	<b>853.</b> 95		
Do	67,539	304.00	56. 28		
Do. lovember 18.	59,972	270.00	49. 98		
Overn per 18	58, 851	265.00 282.00	49. 04 52. 13		• • • • • • • • •
Do	62,556 84,578	281.00	70. 48		•••••
Do	70, 201	216.00	<b>58.</b> 50		•••••
Do	22, 129	77.00	18. 44		
Do	84, 578 70, 201 22, 129 26, 085	91. 00	21. 74	<b> </b>	1
Do	22,358	78.00 82.00	18. 63 19. 62		
Do	23, 539	83.00	19.69		
Doovember 19	23, 625 58, 217 85, 940	897.00	48. 51	16. 77	9.4
D-	85,940	387. 00	71. 62		-
Do	111 220 1	502 00	92, 96		
Do	108,303	487. 00	90. 25		
iovember 26	1 60.630.1	621. 00 252. 00	60. 51	17. 46	4.
Do	55, 934 62, 705 70, 156	282.00	46. 61 52, 25		
Do	70 158	316.00	58. 46		• • • • • • • •
Do	60,736	273.00	60. 61		• • • • • • • • •
Do	74, 055	333, 00	61, 71		
Do	131, 308 125, 350	<b>591. 00</b>	109, 42		
<u>Do</u>	125,350	564.00 508.00	104.46		
Do	112,988	808.00 418.00	94 16		
Do	92,838 97,998	441. 00	77. 37 81. 67		
Do	69,652	813.00	5E. 04		
Do	I ดกกฑดไ	405.00	75. 07		
Do	76, 199 93, 275 68, 644	343.00	63, 50		
Do	93, 275	420.00	77. 73		
Do ovember 27	68,644	309.00	57. 20		
ovember 27	51,850	233. 00 79. 00	43. 21 18. 76		
Do	22, 506 24, 211	85.00	20. 18		
Do	20,089	70.00	16.74		
Do	23, 280	81.00	16. 74 19. 40 18. 32		
Do	21,979	77. 00	18, 32		
<u>D</u> o	23,760	83.00	19. 80		
Doovember 28	77,073	347. 00	64. 23		
Do	88, 154	397. 00 299. 00	73. 46 55. 34		
Do.	66, 403 70, 167 74, 106	316.00	BR 47		
Do	74,106	333. 00	<b>58. 47 61.</b> 76		
Do	90.610	408.00	<b>75</b> . 51		
Do	24, 642 22, 549	86.00	20. 54		
Do	22,549	79.00	18. 79 19. 32		
Do Do	23, 181 22, 704 18, 230 21, 876	81. 00 79. 00	18. 92		
Do	18 230	64.00	16. 19		
Do	21.876	77.00	18, 23	l	
Do	1 22.012 1	77.00	18, 34		
Do	1 25.545	89.00	21. 29		
Doecember 2.	22, 824 96, 975	80. 00 436. 00	19.02		
Do.	39, 970	180.00	80. 81 33. 31		
Do	68, 466	308.00	57. 06		
Do	133, 836	602.00	111.53		l
Do	76,532	844. 00	63. 78 18. 20		
Do	21,844	76.00	18. 20		
Do Do	24, 156	85. 00 82. 00	20. 13		
Do	23, 294 25, 824	90.00	19. 41 21. 52		
ecember 4	47,850	490.00	39. 88	13.78	3.
Do.	47, 850 48, 269	217.00	40, 22		
Do	108, 415	488.00	90. 35		
Do	109, 140	491.00	90.95		
Doecember 6	96, 228	433.00	80. 19		
Do	20, 558 22, 954	72.00 80.00	17. 13 19. 13		l
Do	24,441	86.00	20. 37		
		Jan 30	20.01		
Do	25, 206	88. 00 78. 00	21. 01		l

December 6	Pounds. 22, 282			Quantity.	Duty.
December 6	22, 282				Duty.
December 7	22, 282	ı		Cords.	
December 7		\$78.00	<b>318</b> . 57		
Do Do	72,653	827. 00	60. 54		
₽0	20, 532	72.00	17. 11		• • • • • • • • • • • • • • • • • • •
	85, 613	385. 00 245. 00	71. 34 45. 30		
Do	54, 363 140, 799	634.00	117. 33		
Do	108, 992	490.00	90. 83		
Do	76, 332	343.00	63. 61		
Do. December 9.	52,819	238.00	44. 02		
December 9	109,034	491.00 I	90.86		
Do	23, 490	82, 00	19.58		
Do. December 10.	94,105	941.00	78. 42	27. 10	\$6.78
Do	25, 970	91.00	21.64		
Do	24,524	86. 00 101. 00	20. 44		
Do	22, 527	101.00	18.77		
_ Do	124,857	562, 00	104. 05		
Do. December 11	18, 279	82.00	15. 23		
Do	61, 150	275.00	50. 96		
December 12	22,560	79.00	18.80		· · · · · · · · · · · · ·
_ ηο	23,077	81.00	19. 23		
Do	55,095	248.00 293.00	45. 91		
ρ ₀	65,090	293.00	54. 24	ļ	
Do. December 14.	42,944	193.00	25. 79	····	• • • • • • • • • •
December 14	17,271	78. 00 490. 00	14. 39 90. 74		
Do	108, 890 23, 345	82.00	90. 74 19. 45		
Do	55, 524	250.00	46. 27		
December 10	111.549	502.00	92.96		• • • • • • • • • • • • • • • • • • • •
Do	94,682	426.00	78.90		• • • • • • • • • • • • • • • • • • • •
Do. December 17.	20, 383	71.00	16.99		
Do.	24,820	87. 00	20.68		
Do	74, 893	837.00	62.41		
Do	74, 893 46, 255	474.00	38. 55	13.32	2 23
Do	126,044	567.00	105.04		
Do	69, 857	314.00	68 21		
Do	77,661	849.00	64. 72 41. 18		
Do	49,411	222, 00	41, 18		
Do	47,585	214.00	<b>80</b> . 65 14. 82		
Do	17,778	80.00	14. 82		
Do. December 19.	19, 158	86.00	15. 97		
December 19	35, 178	158.00	29. 32		
Do	84, 476	380.00	70.40		
Do	25,970	91.00	21.64		
До	23, 786	83.00	19. 82		
December 20	66,562	87.00	55. 47 20. 73		
December 20	24, 881 22, 590	79.00	18. 82		•••••
December 21		813.00	67. 79	23, 43	g 04
Do.	81,345 21,992	77. 00	10 22	40.95	5.00
Do	25, 375	89.00	18. 33 21. 15		
Do	73,950	758.00	61. 63	21.30	FR 3
Do	76, 622	345.00	63, 85		2.55
Do	50,451	227, 00	42.04		
Do Do	50, 451 91, 723	413.00	76, 44		
Do	112,052	504, 00	93, 38		
Do	126, 144	568, 00	106.12		
Do	34, 445	155.00	28, 70 20, 53		
December 24	24,637	86, 00	20. 53		
<b>Dec</b> ember 26	23, 112	81.00	19. 26	25. 27	
$D_0$	87,725	877.00	73, 10	25. 27	6.38
Do Do	126,994	571.00	105, 83		
<u>D</u> o	38, 565	174.00	82, 14		
Do.  December 27  Do.  December 28	45,987	207. 00	28. 32		
December 27	25, 404	89. 00 79. 00	21, 17	Į	
Do	22,686	79.00	18. 91		
December 28	71,018	<b>320.00</b>	<b>59</b> . 18		
Do	71,715	<b>\$23.00</b>	59. 76 57. 12		
Do	68, 549	308.00	57. 12		
Do.	90,059	405.00 232.00	75.06		
Desember 20	51,614	464.00	43. 01 85. 98		•••••
Do	103, 181 103, 136	464.00	85. 95		•••••
Do	28, 259	172.00	80. 90 81. 88		••••••
Do	76, 414	844.00	63, 68	l	•••••
Do	25,069	88.00	20. 89		• • • • • • • • • • • • • • • • • • • •
Do	47,850	490.00	39. 88	12.78	2 45

Date.	Quantity.	Value.	Duty.	Counterva (paragra	iling du <b>ty</b> ph 393).
				Quantity.	Duty.
1908.	Pounds.			Cords.	
January 1. January 2. Do.	51, 362 109, 390 75, 898 70, 054	<b>\$231.00</b>	\$42, 80		
January 2	109,390	492.00	91. 16 63. 25		
Do	75,846	842.00 815.00	68. 25 88. 38	•••••	i
Do	47,850	490.00	<b>39.</b> 88	13. 78	42.4E
Do	23,736	83.00	19, 781		(A)1-20
January 6	23, 364	82,00	19. 781 19. 47		l
January 7	23, 457	82,00	19. 55	• • • • • • • • • • • • • • • • • • • •	
Do Do	25, 431 112, 500	89. 00 806. 00	21. 19		<b>-</b>
Do	122, 275	\$50.00	93. 75 101. 90		
Do	98,665	444.00	82 22		
Do	114 100	<b>513.00</b>	96.08		
Do Do Do	76, 445 43, 773 42, 629	844.00 197.00	63. 70 26. 48		
Do	63,773	197.00 192.00	36, 48 35, 52		
Tennery 8	80,600	\$19.00	42.17	14.57	3.64
January 9	23,573	83.00	19. 64	120	3.03
Do. January 8. January 9. Do.	24,348	85.00	90 20		
Do. Do. January 10. January 11. January 13. January 16.	24, 480	86.00	90. 40 66. 78 19. 60		
January 10	78,940	855.00	66. 78		
January 11	23, 525	82.00 72.00	19.60 17.15		· · · · · · · · · · · · · · · · · · ·
January 18	20,580 26,284	92.00	21, 90	•••••	· · · · · · · · · · · · · · · · · · ·
January 17	22, 440	79.00	18. 70		
January 18.	22, 440 78, 706	787.00	65. 59	22, 67	5. 67
January 21	41.039 1	185.00	34, 20 37, 22		
Do	44,660	458.00	37. 22	12.86	3. 22
January 22	22,330 23,521	223.00	18. 61 19. 60	6. 43	1.61
Do	115,076	82.00 518.00	95. 90	•••••	
January 17.  January 18.  January 21.  Do.  January 22.  January 24.  Do.  Do.  Do.  Do.	43, 822	197 00	86. 52		
	43, 822 79, 007	356. 00 160. 00	65. 84		
Do	85, 550	160.00	29. 63		
Do	55, 841	251.00 273.00	46. 53 50. 47 75. 14		
Do	60, 562	406.00	80. 47 75. 14		
Do	90, 171 64, 300	289.00	53. 59		
Do February 1	26,925	91.00	21.60		
Do	49,358	222,00	41. 13		
Do	54, 576	246.00	45. 48		
Populary 3	38,833 50,014	175.00	32.36 41.68		
Do	72,069	175.00 225.00 324.00 161.00 110.00	60.06		
February 5.	35,806	161.00	29.84		
Pebruary 7. February 10.	24,375	110.00	20.31		
February 7	48,519	218.00 1	40. 43		<b></b>
February 10	38,322 17,426	172.00 78.00	31.94 14.52		
Do.		87.00	20.65		
Do	25, 422	89.00	21. 19		
Do	25, 540	89.00 89.00	21.28		
Do	53, 517	241.00	44.60		
February 12	104,043	468.00	96.70 32.99		
Do	39,582 27,730	178.00 97.00	32.99	······	•••••
Do	27, 730 25, 526	89.00	23. 11 21. 27	·····	
Do.		335.00	37. 22	12. 86 13. 65	3. 22
February 14 February 15 February 17 February 18	i 47.410 i	486,00	39.51	13.65	8. 41
February 15	26, 400 26, 400	92.00	22.00		
February 17	26,400 36,664	92.00 165.00	22.00 30.55		
Do	153, 181	880.00	127.65		• • • • • • • • • • • • • • • • • • • •
February 19	145,340	689.00 654.00	121.12		
Do	87.123	167.00	BO 04		
Do	49, 455	223.00	41. 21		
Feorusity 20	82,710	237.00	43.93		
Do	147,073 59,700	662.00 269.00	122.56 AD 75		• • • • • • • • • • • • • • • • • • • •
Do	23,500	82.00	41. 21 43. 93 122. 56 49. 75 19. 58		
February 21	35, 145	851.00	200, 200	10. 12	2. 53
February 18.  Do.  February 19.  Do.  Do.  Pebruary 20.  Do.  Do.  Do.  Pebruary 21.  Do.  February 22.  Do.  February 22.  Do.	82,935	373.00	69.11		
February 22	241.826	1.088.00	<b>20</b> 1. 52		
	192, 528	886.00	160.44		·····
Do Do	50, 333 39, 216	226.00 176.00	41.94 32.68		•••••
~v	99.210	1/0.00	04.08	l- <i></i>	

Date.	Quantity.	Value.	Duty.	Countervailing du (paragraph 393)	
200.	<b>4</b>			Quantity.	Duty.
1908.	Pounds.	l		Cords.	
February 22. February 25. February 26.	25, 291 26, 626	889.00	<b>\$21.08</b>		
February 25	26,626	93.00 843.00	22. 19	9.65	\$2, 41
Do	33, 495 37, 082	167.00	27. 91 30. 90	9.00	\$2. 11
Do	46.180 (	208.00	38, 49		
Do	76, 673 134, 813	345.00 607.00	63. 80		
Do Do	134, 813 219, 166	986.00	112. 34 182. 64		
Do	229, 291	1.032.00	191.08		
Do.  February 28.  Do.  Do.  February 29.	35,621	160.00	29.68		
Do	115,040	518.00 343.00	95. 87	9.65	2.41
Pohmary 20	33, 495 24, 420	85.00	27. 91 20. 35		3. 41
MATCH 4	22,330	251.00	18.61	6. 43	1.61
Γο	22,330 24,252 104,189	85.00	20. 21		
Do	104, 189	469.00 520.00	86.82 96.34		
Do	115,611 44,448	200.00	90.34 37.04		
Do	42,338	191.00	35, 28		
Do	45, 279	204.00	87.78		
Do. March 3	41,671 26,231	188.00 92.00	34.73 21.86		
March 4	23, 628	83.00	19.69		
Do	180, 774	813.00	150, 65	[	
March 6.	26, 282	92.00	21.90		
Do	184, 691 163, 411	831.00 735.00	153.91 136.18		
Do	188, 351	848.00	156.96		
Do	167, 665	754.00	139, 72		
Do	44, 739 51, 983	201.00	37. 28		
Do	229, 765	234.00 874.00	43. 32 191. 47		
March 9	78, 155	801.00	65. 13	22, 51	5, 62
Do	26,088	91.00	21.70		1
March 10.	54, 952	247.00	45. 79 87. 61		
Do	45.131 147,615	203.00 664.00	123.01		
March 12. Do. March 14.	25, 876	91.00	21.66		
Do	26,004	91.00	21.67 117.29		
Do	140, 753 99, 116	633.00 446.00	117.29 82.60		
Do	152, 216	685.00	126.85		
Do	51, 363 46, 252	22.1 n∩ l	42.80		
Do	46, 252	208.00	38.54		
Do	74, 111 64, 726	833.00 291.00	61.76 53.94		· · · · · · · · · · · · · · · · · · ·
Do	117, 280	528.00 I	97.78		
Do	177, 805	800.00	148, 17		
Do. March 18.	26, 494 66, 990	93.00 687.00	22.08 55.83	19.29	4.82
March 19.	66,990	754.00	65. 83	19.29	4.82
March 21	160, 220	721.00	133:52		
Do	144,894	652.00	120.75		
Do Do	141,667 26,942	638.00 94.00	118.06 22.45		
March 23	47,960	564.00	89.97	13.81	3. 46
March 27 March 28	43, 068	194.00	35. 89		
March 28	41,804	188.00 249.00	34. 84 46. 20		
Do	55, 436 44, 543	200.00	87. 12		
Do	44, 543 77, 748	<b>350.00</b>	64.79		
Do	78, 443	353.00	65. 37		
Do Do	75, 800 51, 721	841.00 233.00	63. 17 43. 10		
7.	51, 721 75, 240	839.00	62, 70		
Do	63, 221	284.00	52.68		
March 30	77. 459	309.00	64 55		
April 1	22. 330 70, 681	246.00 724.00	18. 61 58. 90	6.43 20.36	1.61 5.00
	10,001	149. W	46, 20	20.00	0.00
April 2.	55. 437 i	248.00	90, 20		l
D0	55. 437 51, 912	248.00 234.00	43. 26		
Āprīl 2 Do. Do. Do. Aprū 3.	55. 437 51, 912 46. 095 54 409	248.00 234.00 207.00 245.00	43. 26 38. 41 45. 39		

Date.	Quantity.	Value.	Duty.	Counterval (paragra	iling duty ph 393).
				Quantity.	Duty.
1908.	Pounds.			Cords.	
April 4.	25.380	\$89.00	<b>\$2</b> 1. 15		
Do	83, 495	377.00	27.91 21.17	9.65	\$2, 41
April 7 Do	25. 408 44, 660	89.00 447.00	21.17 27.22	12.86	
Do	36, 245	406.00	30. 20	10.44	3. 22 2. 61
Do	75, 152	838.00	62. 63	10. 33	2.01
Do	118.390	533.00	98.66		
<u>D</u> o	51,904	234.00	43. 25		
Do	45, 304	204.00	37.75		
pril 8pril 9	74,726	236.00	62. 27 19. 32	· · · · · · · · · · · · · · · · · · ·	
neil 13	23, 178 23, 658	81. 00 83. 00	19. 34		
pril 13	24,271	85.00	19. 72 20. 23		
Do	23, 622	83, 00	19.69		
Do	70,771	318.00	<i>5</i> 8. 98		
Do	80,859 153,744	364.00	67.38		
Do	153, 744	692.00	128. 12		
pril 16 Do	42,818	193.00 461.00	35.68		
Do	102,501	233.00	86. 42 43. 13		
Do	112 238	505.00	93.53		
Lprii 17	51,758 112,236 24,177	85.00	20. 15		
pril 20	42,673	192.00	<b>35</b> . 56		
	90, 406	407.00	75.34		
Do Do	100, 168	451.00	83. 47		
Do April 22	109, 623	493.00	91. 35	•••••	
April 23	19,384 45,257	68.00 204.00	16. 15		
Do	142,610	642.00	87. 71 118. 84		
Do	133,812	602.00	111.51	**********	
Do	65, 126	293.00	54. 27		
pril 24	23, 512	82.00	19. 59		
pril 27	116,043	<b>B22.</b> 00	96. 70		
Do	78, 261	852.00	65. 22		
pril 28 Do	70,000	815.00	68.33		
pril 30	38,745 23,650	174.00	<b>32. 29</b> <b>19. 71</b>		
Do	101,508	83. 00 457. 00	84. 50		
Do Do	41, 101	185.00	84. 25		
AV 2	89, 320	960.00	74. 43	25.72	6.42
ay 6	33,000	863.00	27. 50	9, 50	2.3
ay 8ay 11ay 13	24,821	87.00	20.68		
Ay 11	87, 125	892.00	72.60		
Do	100,836	454.00 600.00	84.03		
Do	133,311 140,074	630.00	111. 09 116. 73		
Do	55, 669	251.00	46. 39		
Do	37,619	169.00	81.35		
Do	54,987	247. 00	45.82	1	l
Do	102, 215	460.00	85. 18		
Do	22,854	80.00	19.05		
	24, 965 74, 849	87.00	20.80 62.37		
ay 15	25, 421	837.00 89.00	21. 18		
Do	34, 465	155.00	28. 72		
ay 16	25, 392	89.00	21. 16		
Do	45, 682	206.00	38.07		
Do	100,880	454.00	84. 07		
ay 18 Do	1 64.851 i	292.00	54.04		
Do	102, 923	463.00 512.00	85. 77 94. 75		
Do	113,700 37,980	171.00	81.65		
sy 21	39, 175	176.00	32. 65		
Do	1 156.842	706.00 I	130, 70		
Do	27,312	96.00	22, 76		
Do	27, 312 23, 255	81.00	19. 38		
ay 22	20,847	73.00	17. 37		
Do Do.	41,076 77,752	185.00	84. 23		! <b></b> .
Do	77,752	850.00 842.00	64. 79 63, 34		
Do	151 570	682.00	126. 32		;
Do.	151, 579 42, 710	192.00	35. 59		
Do	110,100	495.00	91. 75		<b></b>
ay 23	25, 896	91.00	21. 58		
Do	36,321	163, 00	30. 27		

### MECHANICALLY GROUND PULP OF WOOD-Continued.

Data.	Quantity.	Quantity. Value.	Value	Duty.	Countervalling duty (paragraph 393).	
	<b>J</b>			Quantity.	Duty.	
May 23.  May 27.  Do.  Do.  May 29.  Do.  Do.  Do.	Pounds. 25, 738 152, 018 51, 068 36, 940 25, 920 26, 920 32, 532	\$90.00 684.00 230.00 166.00 91.00 91.00	\$21. 45 126. 68 42. 58 80. 78 21. 60 21. 60 27. 11	Cords.		
Total	69, 529, 519	358, 031. 00	57,941.68	3, 300. 70	\$825. 4	

### CHEMICALLY UNBLEACHED PULP OF WOOD.

1907.	Pounds.	i		Cords.	!
January 2	44, 268	8644.00	\$73.78	1	l
Do	87,040	540.00	61. 73		
Do	54, 614	794.00	91.02		
	<b>53</b> , 091	772.00	88. 49		
January 3					
Do	25, 949	<b>392</b> . 00	43. 25		
January 5	36, 447	<i>5</i> 31.00	60.75	[	
January 7	51,743	753.00	<b>8</b> 6. 24		
Do	49, 391	719.00	82. 32	[	
Do	72, 621	1, 396. 00	121.04	35.79	\$8.9
January 9	40, 150	605, 00	66, 92	1	
Do	31, 339	473.00	B2. 23		
Do	44, 626	650, 00	74.38		
Do	43, 934	662, 00	73. 22		
January 10	25, 322	515.00	68. 87		
Yaminam 11	35, 651	519.00	89. 42	• • • • • • • • • • • • •	
January 11				18.90	
_ Do	35, 280	635.00	<b>8</b> 8. 80	18.80	4.7
January 14	43,940	640.00	78. 23		
Do	37,275	543.00	62. 13		
Do	30, 471	460.00	50.79		
Do	36,982	577.00	61.64		
January 15.	46, 175	672.00	76. 96		
Do	84, 987	<b>527.00</b>	58. 31		
Do	28,712	433.00	47.85		
	43, 821	638. 00	73. 04		
Do					
anuary 16	34, 354	<b>5</b> 18. 00	57.26		
Do	31,884	481.00	63.14		
Sanuary 19	87, 156	<i>5</i> 60. 00	61. 93		
January 21	35, 427	516.00	<b>89</b> . 05		
Do	44, 337	645.00	78, 90		
Do	22, 923	496, 00	84. 87		
January 22	23, 991	512.00	56, 65		
January 23	47, 313	689.00	78, 86		
January 24.	120, 896	2, 176, 00	201. 49	64.77	16. 1
lanuary 28.	46, 577	678.00	77. 63	04.77	10.1
	44, 626	650.00		•••••	
anuary 29			74. 38		
January 31	53, 228	801.00	88.71		
Do	27, 181	<b>560.00</b>	61. 97		
Pebruary 5	47,660	694.00	79. 43		
Do	28, 214	<b>5</b> 76.00	63.69		
Do	36,787	536.00	61. 31		
Do	82,743	1, 205. 00	187. 91		
February 6	92, 230	1, 342.00	153, 72		
February 9	40, 942	617.00	68. 24		*******
February 12	80, 455	1, 209, 00	134.09		
	42, 682				
Pebruary 15.		643.00	71. 14		
Do	49, 202	716.00	82,00		
Pebruary 18	81, 586	1, 188. 00	<b>135.98</b>		
Do	38, 300	577.00	63. 83		
Do	43, 493	633.00	72.49		
Pebruary 19.	35, 100	529.00	58, 50		
Do	23, 579	504.00	85. 97		
Do	42, 595	641.00	70.99		••••••
Pebruary 23.	53, 242	775.00	88.74		••••••
Pebruary 26	38, 635			• • • • • • • • • • • • • • • • • • • •	• • • • • • • • •
		563.00	64.39	••••••	• • • • • • • •
Do	86, 062	1, 253. 00	143. 44		
Do	94, 551	1,376.00	157.59		
Do	27, 193	<b>642.00</b>	61.99		

Date.	Quantity.	Value.	Duty.	Counterval (paragra	lling dut ph 393).
				Quantity.	Duty.
1907.	Pounds.			Cords.	
bruary 28	37, 308	\$543.00	\$62.18		
Do	38, 306	558.00	63. 84	**********	
arch 1arch 4	18, 269	702.00	80. 45		
rch 4	56, 471 86, 929	821.00	94. 12		
Do		1,306.00	144.88		
arch 7	84, 490	1, 230. 00 692. 00	140. 82		•••••
Do	47, 533 39, 980	580.00	79. 22 66. 43		
Doarch 8arch 9	55, 178	803.00	91. 96		
arch 9	44, 335	666, 00	73. 73		
Do l	40,343	587.00	67. 24		
Doarch 13 arch 15	37, 162	559. 00	61. 94		
arch 13	49,003	718.00	<b>81. 68</b>		
arch 15	37, 436	563.00	62. 39		
arch 18	87, 294	1,271.00	145. 49		
Do	139,022	2,023.00	<b>23</b> 1. 70		
Doarch 19	115, 642 45, 519	1, 684: 00 685. 00	192. 74 75. 87		
Do	77, 150	1, 124.00	128. 58		
arch 20	145, 419	2, 189, 00	242. 37		
arch 21	39, 454	593.00	65. 76		
Do	37,951	863. OO	63, 25		
Do	37,951 38,554	562.00	64. 26		
Do	39, 412	559.00	64.02		
arch 22	86, 296	1, 299. 00	143.83		
Do	73, 938	1, 112.00	123. 23		
Do	75, 067	1,093.00 1,541.00	125. 11		
arch 23. Do	102, 545 34, 841	524.00	170. 91 58. 07		
arch 25	75. 262	1, 131. 00	125. 44		
Do	86, 716	1, 262, 00	144.53		
Doarch 28	84.907	1, 262. 00 1, 279. 00	141. 51		
Do	35, 976	542.00	59. 96		
rch 27	114,964	1, 732, 00	191, 61		
Do	123, 453	1,859.00	205. 75	l	1
Do	136, 910	2,061.00	<b>228.</b> 18		
Do	123, 677	1, 863. 00 1, 278. 00	206. 13		
Doarch 28	84, 546	1, 278.00	141. 41 151. 83		
•	91,096 $92,391$	1,391.00	153. 99		
Do	93, 756	1, 411.00	156, 26		
Do	41,005	618, 00	68. 34		
urch 29	74, 739	1, 124 00	124. 57		
Do	46, 895	706.00	<b>7</b> 8. 16		
Do	56, 523 93, 756	860.00	94. 21		
Doarch 30.	93, 756	1, 411. 00	156. 26		
rch 30	69,656	1,047.00	116.09		
oril 1	47, 148	710.00	78. 58		
Do	47, 334	713.00 553.00	78. 89		
Do	36, 680 46, 391	698.00	61. 13 77. 32		
Do	140, 484	2, 115. 00	234.14		
Do	85, 329	1, 285. 00	142, 22		
De	55, 740	839.00 [	92. 90		
oril 2	55, 740 88, 202	576.00	<b>63</b> , 67		
orli 2	46,633	702.00	77.72		
Do	46, 485	700.00	77. 48		
જાાં 4	49, 384	743.00	82. 31		
Do Do	55, 388	833.00 705.00	92. 31 78. 01	•	1
Do	46, 905 86, 944	1, 307. 00	78. 01 144. 91		
Do	45, 327	682.00	75. 55		
oril 8	54, 626	822.00	91.04		
orli 10	100, 488	1.512.00	167.48		
Do	160,886	2, 421.00	268.14		
Do	<b>87</b> ,708	568.00	62, 85		
nefil 11	109,880	1,663.00	183. 13		
neff 19	38, 860	585.00	64.77		
orii 13	45, 768	689.00	76.28		
oru 15	46, 360	698.00	77.27		
orii 13. orii 15. orii 16.	46,010	693.00	76, 68 140, 77	- <b></b>	
oru 19 oru 20	84, 462 52, 954	1,272.00 797.00	140.77 88.26		
#U #U	68, 618	1,032,00	114.86		

Date.	Quantity.	Value.	Duty.	Countervalling d (paragraph 393	
				Quantity.	Duty.
1907.	Pounds.	1		Cords.	
April 23	80, 829	\$1,217.00	\$134,72	00/00.	l
Do	36, 935	557.00	61.56		
Do	35, 232	531.00	58.72		
April 24	62, 485	940.00	104.14		
Do	46, 232 49, 437	696.00 744.00	77. 05 82. 40		
Do	46,942	707.00	78. 24		
Do	98, 487	1, 482, 00	164, 15		
Do	75,866	1,140,00	126. 44		
Do	66,825	1,005.00	111.38		
fay 4	94, 404 45, 850	1, 421.00 690.00	157. 34 76. 42		
Do.	82, 722	1,246.00	137.87		
Tay 14	84, 671	523.00	57.79		
(av 15	44.394	668, 00	73.99		
Do	59, 258	891.00	98.76		
Tay 16	58, 614	882.00	97.69		
lay 17 Do	52, 280 99, 508	787.00 1,498.00	87. 13 165. 85		1
Do	48, 169	725.00	80.28		
Lay 20	89.060	1,341.00	148, 43		
Do	46, 362	698.00	77.27		
(ay_24	81,305	1, 222. 00	<b>13</b> 5. 51		
Do	44, 892	676.00	74.82		
Do	102, 436 78, 389	1,542.00 1,178.00	170.73		
Do.	86, 272	1,299.00	130.65 143.79		
Do	88, 222	1,328.00	147.04	• • • • • • • • • • • • • • • • • • • •	
Do	96,504	1, 453, 00	160.84		
fay 29	45,085	679.00	75.14		
une 3	44,277	667.00	73.80		
Do une 4	41,514	625.00	69. 19	<b></b>	
Do	36,666 75,116	552.00 1,129.00	61.11 125.19	•••••	
une 6	88 644	1, 335, 00	147.74		
une 7	88, 644 37, 276	560.00	62.13		
Do	93, 817	1,412.00	156.36		
une 10	35,753	538.00	<b>59</b> . 59		
une 11 Do	102, 250 72, 593	1,539.00 1,094.00	170. 42 120. 99		
une 12	120, 848	1,820.00	201. 41		
une 13	94, 283	1,419.00	157.14		
Do	44, 365	668.00	78.94		
Do	88, 923	1, 836. 00	148, 21		
Do	91,897	1,383.00	153.16		
Do.	82, 547 74, 808	1,243.00 1,124.00	137.58 124.68		•••••
ume 15	50,058	753.00	83, 43		
une 18	117, 473	1, 765, 00	195.79		
Do	80.451	1, 212. 00	134.09		
Do	95, 936	1,444.00	159.89		
Do	74,005	1,115.00	123.84	•••••	
une 22.	46, 455 93, 560	699. 00 1, 408. 00	77. 43 155. 93		
une 25.	43, 723	658.00	72. 87		
Do	44, 031	663.00	73, 39		
nne 28	81,305	1. 225. 00	135. 51		
une 29.	90,800	1,367.00	151.37		
Do Do.	44, 225 79, 886	666.00	<b>73</b> . 71		
aly 1	82,551	1,201.00 1,241.00	133. 14 137. 59		
Do	37,383	563.00	62, 31		
Do	107,012	1.610.00	178.35		
Do	96, 189	1,448.00	160. 32		
uly 5	91,090	1.371.00	151.82		
Do Do	52,344 48,340	788. 00 728. 00	87. 24 80. 57		ļ
uly 6.	48,340   77,941	1,174.00	129. 90	••••••	
	94,380	1,421.00	157. 30		
uly 8					
uly 8 uly 9.	48, 898	736.00	81. 50		
uly 9uly 10	48, 898 93, 407	736.00 1,406.00	81.50 155.48		
ulv 9	48, 898	736.00	81. 50		

Date.	Quantity.	Value.	Duty.	Countervai (paragra	l <b>ing duty</b> ph 333).
				Quantity.	Duty.
1907.	Pounds.			Cords.	
July 17. July 18	46,006	\$693.00	<b>\$</b> 76. 68		
July 18	50, 934 47, 884	767. 00	84. 89 79. 81		
Do	111,188	721.00   1,673.00	185. 31		
July 22.	45,040	678.00	75. 07		
July 22 July 23 July 25 	85, 148	1,282.00	141. 91	. <b></b>	
July 25	93, 646 78, 927	1,410.00	156.08	. <b></b>	
July 26.	38, 425	1, 189. 00 579. 00	131. 55 64. 04		
Tuly 20	138, 974	2.092.00	231.62		
July 30	89, 988	1,355.00 1,381.00	149.98	1	
August 1	91,740 89.396	1,381.00 1,346.00	152. 85 148. 99		
Do	103, 365	1,555.00	172, 28		
August 6.	97,009	1, 460. 00	161, 68		
August 7.	43, 940	662.00	73. 23 75. 72		
August 6. August 7. August 8. August 13.	45, 433	684. 00			
August 15	95, <b>722</b> 85, 8 <b>92</b>	1,441.00 1,293.00	159. 54 143. 15		
Do	120, 380	1,813.00	200. 63		
Do	43, 065	648.00	71.78		
August 19	97,032	1,460.00	161.72		
Anomet 21	58, 014 81, 901	1,325.00 1,234.00	146. 69 136. 50		
Amonet 93	93, 159	1, 402.00	155, 27		
August 24. August 27.	51,300	772, 00	85. 50		
August 27	88,961	1,339.00	148. 27		
Do Do	90, 567 83, 279	1,364.00 1,254.00	150. 95 138. 80		
Angust 31	50, 340	758.00	83. 90		
September 2September 5	91,911	1,384.00	153. 19		
September 5	81,811	1, 232. 00	136. 35		
Do	88, 815 77, 511	1, 337. 00 1, 168. 00	148.03 129.19		• • • • • • • • • •
September 11.	77, 511 122, 222	1,841.00	203. 70		
* Do	90, 583	1,364.00	150. 97		
Do	41,062	618.00	68. 44		
Do	52, 590 105, 008	791. 00 1, 583. 00	87. 63 175. 01		
Do	71,445	1,077.00	119.08		
Do	83, 424 123, 221	1, 256, 00	139.04		
September 18	123.221	1,856.00	205. 37		
Do. September 18. September 19. September 20.	77, 200 45, 896	1, 163. 00 691. 00	128. 66 76. 49		
Do	78, 101	1, 177, 00	130. 17		
Do	113, 628	1, 177. 00 1, 712. 00	189. 38		
Do	96, 425	1,451.00	160. 71		
September 24.	46, 173 80, 644	695. 00 1, 215. 00	76. 96 134. 41		
Sentember 25	79,981	1,205.00	133. 30		
Do. September 26. September 27. September 28.	44, 103	664.00	73. 51 187. 74		
September 26	82, 642	1,245.00	137. 74		
Sentember 27	91, 251 113, 258 121, 688	1,374.00 1,706.00	152. 09 188. 76		
Uctober 1	121,688	1,833.00	202. 81		
Do. October 8.	39,800	600.00	66. 33	[	
October 8	101,555	1,531.00	169. 26		
Do Do	78, 052 79, 514	1, 176. 00 1, 093. 00	130.09 120.86		•••••
October 9.	72,514 44,720	673.00	74. 53		
Do	70.168	1,058.00	116. 95		
October 10	70, 207 84, 272	1,058.00	117.01		• • • • • • • • • • • • • • • • • • • •
October 17	84, 272 80, 542	517. 00 1, 213. 00	57. 12 134. 24		
Do	77, 103	1, 162. 00	128. 51		
Do	73,998	1, 115. 00	123. 33		
October 18	68, 956	1,039.00	114.93		
October 23 October 29	66, 540 79, 454	1,003.00 1,534.00	110. 90 132. 42	39. 16	\$9.7
November 1	75, 475	1, 137, 00	125, 79	26. 10	<b>49.</b> /
November 2	68, 345	1,030.00	113.91		
November 4 November 5	35, 127 74, 528	529.00 1,128.00	58, 55 124, 21		

Date.	Quantity.	Value.	Duty.	Counterval (paragra)	ling du <b>ty</b> ph 393).
Date.	Quantity.	V 82000	Duty.	Quantity.	Duty.
1907.	Pounds.			Cords.	
November 8.	78, 972	<b>\$1,</b> 115. 00	\$123, 29	l	
Manage has 11	63,054	951.00	106.09		
November 12.  Do.  November 15.	114,712 87,756	1,728.00	191. 19		
Do	87,756	589.00	62.93		
Do	114.364	1,721.00	190.44	<b> </b>	
November 15.	20, 678	601.00	51. 12 192. 84		
	115,703	1,743.00	144. 30	42.67	\$10.67
Do	86, 578 106, 224	1, 838, 00 1, 586, 00	175. 37	32.07	- PIG. 01
November 19	73 660	1,110.00	122, 80		
Do	73, 680 32, 334	808.00	53. 89	23. 10	5.78
Do	20 777	1.202.00	132. 96		
Do	71,303	1,075.00	118.84		
D	78,384	1, 187, 00	130.64	16.55	
Do	83, 573	644.00 621.00	55. 96		4.14
November 23	41, 263	621.00	68. 77	<b></b>	
Do	80, 171	1.208.00	133. 62		
	67,024	1,010.00	111.71		
Do	83,082	1,251.00	138. 44		
November 30	134, 712	2, 031. 00 1, 207. 00	224. 52 133. 54		
December 2	80, 123 75, 729	1, 141. 00	126, 22		
December 4	73, 572	1, 109. 00	122. 62		
December 5	70,665	1,065.00	117. 78		
December 5. December 7. Do. December 9.	80, 212	1,208.00	133. 69		
Do	47, 883	721.00	79. 81		
December 0	86, 629	1,302.00	144.38		
Do. December 10.	82,088	1, 236.00	136, 81		
December 10	48, 322	727.00	80.54		
	67,000	1,010.00	111.67		
Do. December 11.	105, 429	1,589.00	175. 72	<b></b>	
December 11	113, 476	1,710.00	189 13		
December 12	105, 429 113, 476 161, 750	2, 436, 00	269. 58		
December 16	48.710 (	1,093.00	72. 85		
December 17	126, 222	1,901.00	210. 37		
December 18	82,889	1,241.00	137. 32 67. 67		
December 19	40,604 41,264	1, 015. 00 621. 00	68. 77		
December 26	81,607	477.00	52. 68		
December 28	72, 768	1,097.00	121.28		
December 28	68, 566	958.00	105. 94		
Do	2 590	52.00	4.80		
Do	89, 677	992.00	66. 18		
December 31	48, 664	732.00	81. 11		
Do	48, 652	732.00	81.09		
Do	83, 302	1, 255. 00	188. 84	<b> </b>	L
Do	23, 410	835.00	<b>55.68</b>		
		1		ł	
1908.	70.00	1 050 cm	117.08	I	I
January 2.  January 3.  Do.  January 4.  Do.  January 6.	70, 249 89, 674	1,059.00 598.00	66.12		
January a	35, 936	542.00	59. 89		
Tennery 4	40, 106	604.00	66. 84		
Do	<b>28, 027</b>	966.00	64. 38		
January 6	81, 440	474.00	52. 40		
January 9. Do. January 10. January 11. Do	87.784	569.00	62.89		
Do	87, 784 85, 680	<b>536.00</b>	59. 38		
January 10	<b>3</b> 0, 514	460.00	50.86		
January 11	75.962	1, 144. 00	126. 59		
_ Do	84, 872	523.00	58. 12		
January 18.	42, 809	645.00	71.85		
D0	81, 217	1,220.00 638.00	185. 86 70. 57		
January 16. Do	42, 342 85, 478	638.00 533.00	70. 57 <b>59</b> . 13		
Do Do	83, 478 83, 031	1,247.00	138. 39		
Do	\$7,330	561.00	62. 22		
Tennery 17	83, 198	1,980.00	128.66		
	44, 477	668.00	74, 18		I
January 18					
January 18	70, 584	1,064.00	117.64		
January 18	70, 584	1,064.00 503.00	74. 13 117. 64 55. 82		
January 17 January 18 January 20 January 21 Do	70, 584 83, 491	1,064.00	55. 82 202. 18		
January 18.  January 20.  January 21.  Do.  Do.  Do.	70, 584	1,064.00 503.00	55, 82		

Date.	Quantity.	Value.	Duty.	Counterval (paragra	iing duty ph 393).	
<i>D</i> <b>am</b> .	Quilloy.	7-00		Quantity.	Duty	
1908.	Pounds.			Cords.		
nuary 22	123, 987	81,867.00	\$206. 61			
Do	71, 110	1,072.00	118.52			
Do Do	69, 400	1,046.00 1,958.00	115.67 216.70			
Do	130, 018 38, 061 124, 060	573.00	63. 44			
Do	124, 060	1, 868, 00	206.75			
Do	77, 392	1, 166. 00	128. 99			
nuary 27	81, 433	1.224.00	135. 72			
Do	77.580	1, 169. 00 594. 00	129. 30 65. 71	[		
nuary 28. Do. nuary 29.	30, 428 74, 189	594.00	65. 71			
Do	74, 189	1,118.00	123.65			
nuary 29	<b>39</b> , 603	990.00 945.00	66. 01 63. 00			
nuary 31	37, 801 42, 494	655.00	72. 47			
sbruary 1. sbruary 8. sbruary 8.	43, 484 72, 744	1,096.00	121. 24			
ahmary 8	44, 352	687. 00	73.92			
hornary 12	41,292	621.00	68. 82			
D0	80 502	1,532.00	149. 32			
Do	110,363 46,224 116,543 46,228	1,663.00	183.94			
Do	46,224	696.00	77.04		]	
Dobruary 13bruary 14	116,543	1,756.00	194. 24			
obruary 14	46,228	696.00	77.05			
Bornary 14. Do. Sbruary 19. Sbruary 22. Sbruary 25. Do.	77,802	1,172.00	129.67 123.80			
soruary 19	74,280	1,119.00 692.00	76.63			
SOFURITY ZZ	45,975 43,460	654.00	72.43			
Do	45 510	685.00	75.85			
	45,510 37,041	558.00	61.74			
Do.	1 22.095	586.00	64.88			
Do sbruary 27 Do	34,153	515.00	56.92			
Do	43,394	653.00	72.32			
	87,802	570.00	63.00			
Do. boruary 28.	34,153 43,394 87,802 83,134	1,252.00	138.56			
Noruary 28	40,113	694.00	76. 86 68. 25			
Do. Do.	40,952	617.00 1,341.00	148.08			
Do	88,846 108,410 84,054	1,634.00	180.68			
Do. sbruary 29	84.054	513.00	56.76			
Do	41 142	620.00	68.57			
arch 2	33,081	499.00	55. 14			
arch 5	45,709	688.00	<b>76.</b> 18			
aroh 6	33,081 45,709 37,879	947.00	63, 13			
arch 7arch 11	40,437 80,552	609.00	67.40			
Do	80,552	1,213.00 589.00	134. 25 65. 20			
Do	39,120 36,855	555.00	61.43			
arch 19	85 241	531.00	58.74			
Doarch 12arch 14	107,520	1,620.00	179.20			
Do	35,241 107,520 78,913	1,189.00	131.52			
Do	45,183	680.00	75.31			
arch 16	123,478	1,860.00	205.79			
Do	26 547	914.00	60.91			
Dosreh 17	40,390 79,706 83,140	608.00	67.32			
Do.	79,708	1,201.00 500.00	132, 84 55, 23			
Do	302 744	494.00	54. 57			
Dosreh 18	87 402	565.00	62.49			
Do	37,493 38,903 36,990 38,916	586.00	64.84			
Do	36,980	657.00	61.63			
arch 23	38,916	586.00	64.86			
Do	1 159.398	2,401.00	265.66			
Do	31,344	473.00	52.24			
arch 24.	122,868	1,854.00	204.78 68.76			
Dosreh 27.	31,344 122,868 41,258 81,840	621.00 1,233.00	196.40			
arch 28	37,741	569.00	136. 40 62. 90			
arch 31	46,875	706.00	78, 13			
arch 28. arch 31. pril 2.	86,968	1.815.00	144.95			
Dopril 3	83,570 40,684	1,315.00 1,261.00	129, 28			
n=17 0	40.684	614.00	67.81			
pru a						
pril 6pril 7pril 8	34.660	867.00 737.00	57.77 81.56			

#### CHEMICALLY UNBLEACHED PULP OF WOOD-Continued.

Date.	Quantity.	Value.	Duty.	Countervai (paragraj	ling duty oh 393).
				Quantity.	Duty.
1908.	Pounds.			Cords.	
pril 21	49,792	\$749,00	\$82.99	l	
Do	46,934	707.00	78. 22		
pril 24	47,355	718.00	78.93		
pril 28	45.035	678,00	75.06		l
pril 29	45,735	689.00	76.23		
(ay 4	42,708	643.00	71.18		
Lay 6	88,480	1.332.00	147. 47		
Lay 13	37,171	560.00	61.95		
(ay 19		1,908.00	211.19		
Do	101,222	1,518.00	168, 70		
(ay 20	85, 483	1,287.00	142.47		
Do	88,863	1,338.00	148, 11		
(ay 22	42,313	637.00	70, 52		
(ay 23	77,334	1,167.00	128, 89		
(ay 26	38,604	582,00	64. 84		
Do	40,966	617.00	68. 28		
lay 27	84,574	1,274.00	140.96		
Do	54,346	1,350.00	90.58		
Lay 29.	70.971	1.071.00	118, 29		
-					
Total	28,880,158	441,404.00	48, 134. 00	240.94	360.2

No importations during the period from January 1, 1907, to June 1, 1908, of filter masse or filter stock under paragraph 395 of the tariff act of 1897.

Printing paper, valued above 2 cents and not above 2½ cents a pound, imported into the district of Memphremagog (Newport, Vt., port of entry) from January 1, 1907, to June 1, 1908, from the Dominion of Canada under paragraph 396, was as follows: November 15, 1907, 15,509 pounds, valued at \$349; duty, \$62.04.

Pulp woods imported into the district of Memphremagog (Newport, Vt., port of entry) from January 1, 1907, to June 1, 1908, from the Dominion of Canada under paragraph 699.

Data.	Quantity.	Value.	Date.	Quantity.	Value.
1907.	Cords.		1907.	Cords.	
January	25,820	\$106, 207. 00	December	21,910	\$124, 829. OC
February	16, 312	69, 790. 00			1
March	22, 230	94, 248.00	1908.		
April	35, 421	144, 278. 00	January	27, 231	158, 961. 00
April	20, 494	85, 918. 00	February	29, 255	172, 308.00
June	22,786	103, 059. 00	March	45, 823	271, 394, 00
July		126, 370.00	April	25, 793	214, 345.00
August	23, 246	131,954.00	May	12,505	72,009.00
Beptember	14, 701	83, 340. 00	-		
October	10,891	61, 727. 00	Total	404, 910	2, 117, 401. 00
November	17, 442	97, 166, 00	1		'

# PORT OF BALTIMORE, MD.

Tabulated statement of wood pulp imported into the port of Baltimore, Md., showing the various kinds, the date of arrival, quantity, appraised value, and country of origin of each importation, together with the duties collected thereon, from January 1, 1907, to June 1, 1908.

### WOOD PULP, MECHANICALLY GROUND.

Country of origin.	Date of arrival.	Quantity.	Appraised value.	Rate of duty.	Duty.
Germany	Mar. 19,1907	Pounds. 115,000	\$805.00	One-twelfth of a cent	<b>9</b> 95. 83

#### UNBLEACHED CHEMICAL WOOD PULP.

	1	Pounds.		1	
ermany	Jan. 29, 1907	56,000	\$1,095.00	One-sixth of a cent	<b>\$93</b>
Do	Feb. 11,1907	812,231	6,314.00	do	520
Do	Feb. 18, 1907	72, 456	1,504.00	do	120
Do	Feb. 19, 1907	73,900	1,773.00	do	184
Do	Mar. 6,1907	269	3.00	do	
ussia	Apr. 30, 1907	55,843	932.00	do	93
ermany	May 14,1907	133, 409	2,541.00	do	222
Do	May 20,1907 May 31,1907	276, 139	5, 354.00	do	460
Do	May 31, 1907	178, 529	3, 420. CO	[do	297
Do	June 17, 1907	33,598	642.00	do	56
Do	June 28, 1907	187, 484	3,802.00	do	312
Do	July 3,1907	44, 797	746.00	do	74
Do	July 5, 1907	324, 551	5,928.00	do	540
reden	July 6, 1907	156,800	<b>2,82</b> 3.00	do	261
Do	July 8, 1907	190, 400	3,396.00	do	317
ermany	do	4. 636	<b>579.0</b> 0	do	7
Do	July 16, 1907	88, 184	1,680.00	do	146
Do	July 22, 1907	275, 251	5, 703. 00	do	458
Do	July 30, 1907	201,600	3, 110.00	do	336
Do	do	561, 622	9,853.00	do	936
Do	Aug. 13, 1907	135, 947	2, 198. 00	do	261
Do	do	569, 949	9,530.00	do	949
reden	Aug. 20, 1907	112,000	2,024.00	do	180
Do	Aug. 21, 1907	33,600	607. 00	do	56
rmany	do	362, 127	<b>5</b> , 749. 00	do	603
Do	do	268.741		do	447
reden	Aug. 22, 1907	112,000	1,790.00	' <b>d</b> o	186
rmany	Sept. 4, 1907	880, 209	14,560.00	ob	1,467
Do	Sept. 5, 1907	111.994	1,806.00	do	186
Do	Sept. 10, 1907	88. 501	1,851.00	do	147
Do	Sept. 11, 1907	201.589	3,048.00	do	335
Do	Sept. 24, 1907	158, 819	2,433.00	do	264
Do	Oct. 5, 1907	589,742	10,828.00	do	982
Do	Oct. 9,1907	359	8.00	do	
Do	Oct. 11,1907	32, 608	734.00	do	54
Do	Oct. 14,1907	111,994	1,886.00	do	186
reden	Oct. 15, 1907	44, 800	677.00	do	74
rmany	Oct. 17, 1907	201, 897 67, 200	3,391.00	do	336
reden	Oct. 28,1907	67,200	1,332.00	do	112
rmany	Oct. 31,1907	188,149	2,783.00	do	813
<u>D</u> o	Nov. 4,1907	370,770	5,895.00	do	617
Do	do	111,994	1,883.00	do	186
reden	Nov. 6,1907	80.640	1,457.00	do	134
<u>D</u> o	do	\$6,000	744.00	do	93
Do	Nov. 11,1907	89.600	1,512.00	do	149
Do	do Nov. 14,1907	89, 100	1,191.00	do	149
rmany	NOV. 14,1907	1,770	36.00	do	
	Nov. 19,1907	111, 483	2,666.00	do	186
xway	do	56,000	1,049.00	do	93
rmany	Nov. 20,1907	614,254	10,491.00	do	1,023
Do	Nov. 21,1907 Nov. 22,1907	1,392	25.00	do	2
reden	MOV. 22,1907	44.800	764.00		74
Do	Dec. 5,1907	324, 900	<b>5,208</b> .00	do	541
rmany		463, 539	7,878.00	do	727
Do	Dec. 13,1907	46,032	822.00	do	76
Do	Dec. 16,1907	1,340,503	22,412.00	do	2,234
reden	Dec. 19,1907	39, 427		do	65
rmany	Dec. 26,1907	693, 479	11,047.00	do	1,155
Do	Dec. 28,1907	261	9.00	do	
Do	do	1,084	30.00	do	1
Do	Jan. 4,1908	1,324,039	<b>21,37</b> 5.00	do	2,206
<b>Р</b> о	Jan. 8,1908	286	10.00	do	
reden	do Jan. 20,1908	40,320	757.00	do	67
mmany	1908, 270, 200   a.a.	107,408	1,879.00	do	179
Do	Jan. 22,1908	223,987	<b>3,772</b> .00	do	373
Do		282, 493	4,658.00	do	470

Tabulated statement of wood pulp imported into the port of Baltimore, Md., showing the various kinds, the date of arrival, quantity, appraised value, and country of origin of each importation, together with the duties collected thereon, from January 1, 1907, to June 1, 1908—Continued.

## UNBLEACHED CHEMICAL WOOD PULP-Continued.

Country of origin.	Date of arrival.	Quantity.	Appraised value.	Rate of duty.	Duty.
Germany Do Do Russia Sweden Do Germany Russia Germany Sweden Russia Germany Sweden Russia Germany Sweden Russia Germany Sweden Do Do Do Do Do Do Do Do Do Do Do Do Do	Feb. 25,1908  Feb. 27,1908 Mar. 3,1908 Mar. 3,1908 Mar. 16,1908 Mar. 17,1908 Mar. 18,1908 Apr. 6,1908 Apr. 6,1908  Apr. 20,1908 dododododoMay 4,1908	Pounds. 616 730, 477 38, 502 44, 961 267, 372 6 96, 315 294, 490 39, 687 44, 20 738, 576 56, 000 114, 460 390, 648 390, 648 390, 648 390, 648 390, 936 138, 872 390, 489 44, 800	698.00 750.00 4,672.00 1,390.00 3,739.00 11,989.00 717.00 748.00 13,290.00 1,022.00 2,003.00 6,424.00 2,066.00 713.00	One-sixth of a cent	64, 67 74, 94 448, 62 160, 53 490, 83 309, 58 1,178, 85 64, 17 1,231, 46 93, 33 190, 77 74, 67 66, 16 66, 16 65, 23
Total		18,140.336	310, 133. 00		30,291.28

Additional export duty on this entry under paragraph 393, \$5.85.

#### BLEACHED CHEMICAL WOOD PULP.

		Pounds.		1	
15sia	Jan. 7, 1907	113,693	\$2,596.00	One-fourth of a cent	
Do		98,003	2,764.00	do	
rmany	Маг. 25,1907	62, 242	1,874.00	do	
Do		2,782	351.00	do	
Do	do	62,846	1,736.00	do	
Do	July 5, 1907	121, 233	2,977.00	do	
Do	July 9, 1907	61,982	1,711.00	do	
Do		61,927	1,648.00	do	
Do		61, 259	1,501.00	do	
Do		61,905		do	
Do		154,763	3, 408.00	do	
Do		111.883	3,042.00	do	
Do	do	118,890		do	
Do	Oct. 5.1907	88, 735		do	
Do		257, 938		do	
Do		268,741	6, 238, 00	do	
Do		117, 463		do	
Do		6,838		do	
Do		111,883	2,666,00	do	
Do		124, 988		do	
Do		119,368	2,706.00	do	-
Do		294, 114		do	- 1
Do		244, 453		do	4
Do		61, 912	1,771.00	do	
Do		244, 292	6.985.00	do	
Total		3,034,133	77.018.00		7,

No importations of filter masse or filter stock under paragraph 395, nor of printing paper under paragraph 396, nor of pulp woods under paragraph 699, of the tariff act of 1897 during the period from January 1, 1907, to June 1, 1908.

# PORT OF PHILADELPHIA, PA.

Statement showing the importations of wood pulp, printing paper, and filter masse into the port of Philadelphia from January 1, 1907, to June 1, 1908, dutiable under paragraph 593 of the tariff act of July 24, 1897.

Country of origin.	Date of arrival.	Quantity.	Appraised value.	Rate of duty.	Duty collected
		Pounds.			
Germany Norway Germany Do Sweden	Jan. 11,1907	75,901	\$1,308.00	One-sixth of a cent	\$126.
Norway	Jan. 12, 1907	198.878	3,426.00	do	331. (
Germany	Jan. 17, 1907	110, 264 334, 208 33, 600	1,860.00	do	183. 7
Do	go	334, 208	5,543.00	do	557. 0 56. 0
Sweden	go	33,600	648.00	do	56.0
Do	qo	44,800	852.00	do	74.6
Do		33,600 32,823	666. 00 602. 00	dododododo	56.0 54.7
Do	do	92, 020 971 090	6, 763.00	do	618.3
Norman	Tan 27 1007	371,029 109,368	2,080.00	do	182. 2
Rwadon	Teh 1 1007	54,568	1,095.00	do	90.9
Germany	do	104,992	1,805.00	do	174.6
GermanyDoDo	do	332 57R	6, 284. 00	do	564.2
Do	Feb. 21, 1907	65, 567 156, 041 54, 933	848.00	do	109. 2
Sweden	do	156, 041	2,873.00	do	260. (
		54, 933	1.095.00	do	91. 4
Norway	do Feb. 23,1907 Feb. 27,1907	INN CHEC	2, 855.00	do	278. 1
Do	Feb. 23, 1907	111, 160	1 2.088.00	do	185. 2
Germany	Feb. 27, 1907	11, 289	216.00	do	18.8
Norway	do	111,160 11,289 87,756 324,157	1,653.00	ldo	146.2
Do	Mar. 12, 1907	324, 157	6,066.00	do	146.2 540.2
5Weden	Mar. 12, 1907	153,052	2,875.00	do	255.0
Do	Mar. 18, 1907	33,600	663, 00	do	56. (
Germany Norway Germany	Mar. 18, 1907 do  Apr. 3, 1907	152, 492 159, 702	2,863.00	ldo	254.1
Norway	Apr. 3,1907	159,702	2,902.00	do	266.
Germany	do	231,683	4, 325. 00	do	386. 1
	Apr. 8, 1907	226, 281	4,200.00	do	877. 1
Norway	do	117,656	2,287.00	do	196. (
Do	May 1,1907 May 7,1907 May 7,1907 May 8,1907	117,656 47,356	571.00	do	78. 6
weden	May 7,1907	121,811 22,751 33,072	2,220.00	do	203.0
Germany	May 8, 1907	22,751	430.00	do	37. 9
1)0	May 11.1907	33,072	682.00	do	55. 1
Sweden	do	163,710	<b>2,8</b> 55.00	do	272.8
SwedenGermany	May 14,1907	23, 322	638.00	do	38.8
_ Do	do	33,600	547.00	do	56.0
England	May 14,1907 do  May 22,1907	33,600 225,558 135,072	4,096.00	do	375. 9 225. 1
Germany	do May 24, 1907	135,072	2, 425. 00	do	225. 1
Sweden	May 24, 1907	123, 200	2,220.00 1987.00	do	205. 2
Jermany	June 1, 1907	53, 276 81, 737	1987.00	do	88.7
Sweden Germany Sweden Germany	June 1,190/	81,737	620.00	do	62.0
Norway	do	113, 966 <b>3</b> 2, 224	2,140.00 547.00	do	189. 9 53. 7 55. 1
not way	- a_	32, 229	682, 00	do	00-
Sweden Germany Sweden Norway	June 9,1907 June 16,1907 June 17,1907	33,069 252,660	4, 635.00	do	421.
Rwadon	Tune 0 1007	46 417	726.00	do	77
Morway	June 16 1907	165 288	2,849.00	do	77. S 275.
100	Inne 17 1907	46, 417 165, 288 54, 194	1,095.00	do	90.
weden	June 19, 1907 June 26, 1907	33, 445	620.00	do	85.
Germany	June 19 1907	222,905	4, 123.00	do	871.
Do	June 26, 1907	32,683	647.00	do	54.
SwedenGermany Do Bweden	do	120, 644	8. 220. 00	I do	201.0
100	June 26, 1907 dodo July 1, 1907 July 8, 1907 July 11, 1907	120, 644 44, 798	8,220.00 742.00	do	74.
Germany. Do Gweden. Jermany.	July 8,1907 July 11,1907	1.400	26.00	ldo	2.1
Do	July 11.1907	220.718	8,796.00	Jdo	377.
weden	l do	190, 400 67, 858	8,540.00	dodo	317.
Jermany	do Aug. 2, 1907 do	67, 858	1, 182, 00	ldo	113.
(Weden	Aug. 2, 1907	5,600 111,993	1,182.00 1,019.00	do	93.
Germany	do	111,993	1,777.00	do	186.
Do		65,970	972.00	do	109.
weden	Aug. 3, 1907	<b>33.</b> 069	682.00	do	55. 189.
Do	AUE. 5, 1907	113, 431 107, 827	2, 187. 00	do	189.
Ingland	Aug. 7,1907	107,827	1,399.00	do	179.7
kermany	Aug. 13, 1907	227, 515	<b>3.832.00</b>	do	379.
Jermany Do Do iweden	Ang 14 1907	44, 092	837.00	do	73.
Do	Aug. 25, 1907 Aug. 27, 1907	155, 846	<b>2,</b> 663.00	do	259.1
Meden	Aug. 25, 1907	40, 662 123, 200	682.00	do	67.
120	Aug. 27, 1907	123, 200	1,943.00	do	205.3
NOTWBY		220, 455	8,797.00	dododo	367.
ermany	do Sept. 8,1907 Sept. 12,1907	234, 388	N. 785. (II)	do	390.
Vorway	sept. 3, 1907	65, 854	1.214.(1)	do	109.
ermany	sept. 12, 1907	65, 854 837, 573 83, 069	B. 604. 00	do	562.
		33,069	682.00	do	55.
170	do	123, 200	2,215.00	do	205. 3 130. 6
The .					
Do	Sept. 25, 1907 do	78, 400 53, 811 <b>83,</b> 788	1,504.00 938.00	dodo	89.6

Statement showing the importations of wood pulp, printing paper, and filter masse into the port of Philadelphia from January 1, 1907, to June 1, 1908, dutiable under paragraph 393 of the tariff act of July 24, 1897—Continued.

Country of origin.	Date of arrival.	Quantity.	Appraised value.	Rate of duty.	Duty
		Pounds.			
ermany	Oct. 2, 1907	298, 761	\$5, 268. 00	One-sixth of a cent	8497.
lorway	do	82, 214	566.00	do	53
Doweden	Oct. 14, 1907	531, 906 44, 800 219, 351	8, 350. 00 866. 00	do	886. 74
Wedell	do	219 351	8, 808. 00	dodo	865
ermany	do		676.00	do	76
weden	Oct. 27, 1907	120, 446 162, 667 110, 775 55, 050 223, 923	1.949.00	do	200
ermany	l	162, 667	8, 615. 00	do	271
vedenermany	Nov. 5, 1907	110, 775	2, 187.00	do	184 91
ermany	Nov. 6, 1907	55,050	1,009.00	l	873
Do		223, 923	8,903.00 1,758.00	do	186
reden	do. Nov. 18, 1907 Nov. 19, 1907 Nov. 18, 1907 Nov. 26, 1907	111,622 126,464	2,169.00	dodo	210
reden	Nov. 19, 1907	120, 681	1,924.00	do	201
rmany veden	Nov. 18, 1907	120, 681 126, 464	1,924.00 2,169.00	do	210
reden	Nov. 26, 1907	33,069	682.00	do	55
rmanw		451,354	0 N12 NN	do	752
veden	Nov. 27, 1907 Nov. 29, 1907	56.000	1,083.00	do	93.
veden ormany	Nov. 29, 1907	102, 025 109, 844	2, 184. 00 1, 741. 00	do	170.
Do	do	109,844	1,741.00	dodo.	183 184
Do	Dec 2 1007	110,444	2, 129.00 1, 522.00	do	158
Do	Dec. 2, 1907 Dec. 18, 1907	94, 983 190, 706	3,091.00	do	317
Do	do	177, 123	3,007.00	dodo	295
re <b>den</b>	Dec. 20, 1907	177, 123 144, 508	3,007.00 2,768.00	do	240
Do	Dec. 23, 1907	181,390	8,242.00	do	302
rmany	Dec. 23,1907	221,970	3,826.00	do	369
Do	Jan. 1,1908 Jan. 3,1908	203, 462	3,047.00	One-fourth of a cent	339 556
ро ргway	Jan. 3,1908	222,570 44,797 22,839	5,685.00 744.00	One-sixth of a cent	74
reden	Jan. 10,1908	22, 839	518 M	do	38
Do		121.682	1,906.00	do	202
ermany ungary veden	do	446, 453 845, 684 87, 704	1,110.00	do	744
ungary	Jan. 12, 1908	345,684	6,875.00	do	576
veden	Jan. 12, 1908	87,704	1,435.00	do	146
orway	Jan. 26, 1908	222,084	3,932.00 2,129.00	do	370
ermany	Jan. 20, 1908	110,593	3,828.00	do	184 365 177
orway	do	106 343	1,874.00	dodo	177
Do	do	219, 432 106, 343 122, 350	2, 445, 00	do	203
Do	Feb. 12, 1908	110 888	2,445.00 1,886.00	do	184
reden		44,800	671.00	do	74
orwayveden	Feb. 16, 1908	44,800 44,797 89,600 110,523	732.00	do	74 149
reden	Mar. 3, 1908	89,600	1,514.00	dodo.	184
rmanyveden		33,069	2, 129. 00 682. 00	do	55
Do	do	76,521 31,733 113,780 219,235	1, 247. 00	do	127
rmany	do	31,733	610.00	do	52
Do	do	113,780	1,874.00	do	189
orway	Mar. 17,1908	219, 235	3,802.00	do	365
Poeten	do	109, 147	2,297.00	do	181
ingary	do	42, 202	6,874.00	dodo.	570
ungaryveden	Mar 24 1000	109, 147 342, 202 43, 372 78, 208	671.00 1,376.00	do	72 180
radan	AND IN IGNE	88,433	1,421.00	do	147
rmany	do	111.993	I 1922 M	do	186
Prmany. Do. orden	Apr. 22, 1908	88, 433 111, 993 111, 993 123, 200 112, 000 44, 797	1,886.00	do	186
reden	do	123, 200	1 1.945.00	l do	205
rway	do	112,000	2, 129.00	do	186
Do		44,797	732.00 762.00	dodo.	74 74
Do	Apr. 27, 1908		1.894.00	do	186
Do	Apr. 30, 1908	112,000 134,922 110,230	3,393.00	dodododo	224
Do	May 4 1908	110. 230	2.321.00	dodo	183
ormanyorwayveden	May 4, 1908 dodo	117, 593 112, 000 100, 800	1 1 990 00	do	195
rway	do	112,000	2, 129. 00	do	186
reden	do	100,800	1,591.00	do	168
νο	May 13, 1908	89,600 <b>354</b> ,949	1,421 00	l QO	149.
ungary		504, 949	6,844.00 1,677.00	do	591. 137.
Do	Jan. 4,1907 Jan. 5,1907	54 597	1,677.00	One-fourth of a cent	136
Do	Jan. 5, 1907 Jan. 5, 1907 Jan. 17, 1907	101, 376	2,666.00	dodo	253
weden	do	54, 888 54, 597 101, 376 133, 191	8, 393, 00	do	332
ermany	Jan. 24, 1907	110.362	3.299.00	do	275
Do	Feb. 1,1907 Feb. 4,1907	62.575	1,979.00	dodo	156
	Feb. 4, 1907	145, 906	4 000 00	. 4-	364

Statement showing the importations of wood pulp, printing paper, and filter masse into the port of Philadelphia from January 1, 1907, to June 1, 1908, dutiable under paragraph 593 of the tariff act of July 24, 1897—Continued.

Country of origin.	Date of arrival.	Quantity.	Appraised value.	Rate of duty.	Duty collected.
Germany	Mar. 12,1907doApr. 1,1907 May 3,1907 May 11,1907 May 11,1907 June 16,1907 June 16,1907 July 8,1907 Aug. 25,1907 Oct. 14,1907doNov. 19,1907doNov. 28,1907 Dec. 20,1907 Feb. 6,1908 Feb. 28,1908 Mar. 16,1908	Pounds. 147. 477 146. 165 167. 188 146. 619 166. 734 167. 180 146. 165 124. 615 168. 652 144. 980 164. 901 141. 003 165. 152 11. 023 150. 140 222. 010 223. 012 222. 128. 162	4, 037. 00 8, 676. 00 4, 036. 00 4, 036. 00 4, 036. 00 3, 676. 00 3, 676. 00 3, 676. 00 3, 676. 00 4, 242. 00 3, 676. 00 4, 033. 00 264. 03 8, 713. 00 5, 734. 00 5, 734. 00 3, 333. 00	One-fourth of a cent	865. 41 417. 97 866. 54 416. 34 417. 94 415. 44 865. 41 362. 421. 63 362. 44 352. 00 412. 22 352. 55 412. 85 876. 36 550. 96

## PRINTING PAPER.

	i			1	
		Pounds.	<b>61 111 00</b>		
Netherlands	Feb. 12,1907	20,000	\$1,111.00		\$166. 65 108. 60
_ Do	Feb. 20,1907	7,000	724.00	do	
Germany	Feb. 21,1907	548	49.00	do	7. 35
England	Mar. 25,1907	3,527	829.00	do	124 35
Do	Apr. 2,1907	14,763	772.00	do	115.80
Do	Apr. 10,1907	185	38.00	do	5.70
Netherlands	Apr. 29,1907	<b>35</b> ,000	2,083.00	do	312. 45
France	May 10,1907	7,920	1,179.00	do	176.85
Do	May 24,1907	19,303	2,725.00	do	408. 78
Netherlands	June 3,1907	29,005	2,527.00	do	379.05
France	June 12,1907	15,110	796.00	do	119. 40
Netherlands	July 14, 1907	10,000	542.00	do	81.30
Do	July 20,1907	15,000	951.00	do	142.65
England	do	18	2.00	do	. 30
France	July 29,1907	2,047	409.00	do	61. 36
England	July 30,1907		419.00	do	62. 8
Netherlands	Aug. 3,1907	10,000	611.00	do	91. 66
Do	Aug. 9,1907	11,000	666, 00	do	99. 90
France	Aug. 25,1907	17,316	<b>2,7</b> 16.00	do	407.40
Netherlands	Aug. 28,1907	9,000	910.00	do	136, 50
England	ldo	4,576	309.00	do	46. 38
Germany	Sept. 3,1907	2,903	273.00	]do	40. 95
Netherlands	Sept. 7,1907	12,000	1,242.00	ldo	186. 30
France	Sept. 17, 1907	5,038	906.00	do	135. 90
Notherlands	do	4,600	463.00	do	69. 45
England	Sept. 27,1907	4,746	1,087.00	do	163.05
Netherlands	Oct. 16,1907	6,600	661.00	do	99. 18
Scotland	Oct. 17,1907	1,632	397.00	do	59. 58
Netherlands	Nov. 15.1907	5,420	542.00	do	81.30
France	Dec. 7,1907	13, 258	2,297.00	do	344. 55
England	Dec. 10,1907	3,500	195.00	do	29. 25
Netherlands	Feb. 9.1908	14,100	1,410.00	do	<b>2</b> 11. 50
Do	Feb. 16,1908	15,646	1,565.00	do	234.75
Do	Feb. 25,1908	5,650	565.00	do	84. 75
Do		8,430	843.00	do	126. 45
Belgium	Apr. 9,1908	3,452	175.00	do	26. 25
Do	do	4,695	238.00	do	35. 70
Netherlands	May 5,1908	1,437	206.00	do	30. 90
Do		15,000	932.00	do	139, 80
Belgium	June 12.1907	2,348	93.00	Eight-tenths of a cent	18, 39
Do		2,368	96.00	do	18. 94
Do		9,726	419.00	do	77, 46
Do		2,567	108.00	do	20. 54
20	,,,	2,001	200.00	.	
Total	[	376, 434	35,081.00		5,290.08
		1			

Statement showing the importations of wood pulp, printing paper, and filter masse into the port of Philadelphia from January 1, 1907, to June 1, 1908, dutiable under paragraph 393 of the tariff act of July 24, 1897—Continued.

## FILTER MASSE.

### [Under paragraph 395.]

Country of origin.	Date of arrival.	Quantity.	Appraised value.	Rate of duty.	Duty collected.
Germany		Pounds. 1,102 1,102 2,204	\$132.00 130.00	15 per cent and 1½ centsdo	\$36, 23 36, 08

There were no importations of pulp woods at this port during the period in question.

No additional duties collected during the period from January 1, 1907, to June 1, 1908, on importations under paragraphs 393 or 396 of the tariff act of 1897.

## PORT OF NEW YORK, N. Y.

Imports of wood pulp, under paragraph 393, tariff of 1897, at the district and port of New York, from January 1, 1907, to June 1, 1908.

#### MECHANICALLY GROUND.

Entry No.	Country of origin.	Date.	Quantity.	Appraised value.	Duty collected.
100607 119658 100769 185941 193418 221451 247958 268385 298840	Norway New Brunswick Nova Scotla Norway do Sweden New Brunswick do Germany Total	July 1,1907 July 17,1907 July 25,1907 Aug. 23,1907 Sept. 20,1907 Oct. 11,1907 Nov. 11,1907	Pounds. 66, 402 366, 454 236, 382 54, 468 43, 235 28, 876 791, 350 572, 702 88, 184 2,248,053	\$643. 00 2, 656. 00 1, 230. 00 866. 00 445. 00 358. 00 5, 464. 00 5, 603. 00 580. 00	\$55. 34 \$05. 38 194. 36 45. 39 36. 00 24. 06 659. 46 477. 22 73. 49

#### CHEMICALLY UNBLEACHED.

			Pounds.	1	
3713	Austria-Hungary	Jan. 4,1907	66,098	\$1, 168, 00	\$110, 16
6233	Germany	Jan. 7, 1907	55,246	1,087.00	92, 08
9735	Austria-Hungary	Jan. 12, 1907	61,698	1, 168.00	102, 83
3671	Germany	Jan. 16, 1907	564, 119	10, 558, 00	940, 20
3701	Norway	do	112, 919	2,084,00	188, 20
5604	Germany	Jan. 18, 1907	83,600	654, 00	86, 00
5690	Sweden	do	56,000	1,090.00	98. 33
5923	Germany	do	217,876	4, 095, 00	363, 13
1300	Sweden	Jan. 24, 1907	90,710	1,728.00	151. 18
1303	ldo		102,048	1, 916, 00	170, 08
2284	do	do	33,600	672.00	86, 00
2341	Germany	do	811, 619	8, 225, 00	519. 37
2361	8weden	do	149, 724	2,824.00	249, 54
3210	ldo	Jan. 26, 1907	208, 550	8,994.00	847. 5B
3211	ldo	do	65, 746	1,318.00	112.00
3233	Russia	Jan. 28, 1907	224, 635	8,740.00	374, 39
5208	Germany	do	112, 333	2, 116, 00	187, 22
6030	do		155, 362	2, 989, 00	258, 94
7018	do	Jan. 30, 1907	81,622	836.00	82, 70
9004	Austria-Hungary	Feb. 1,1907	108, 138	1, 950, 00	180, 23
0263	Sweden	Feb. 2,1907	67, 200	1, 818, 00	112,00
3047	Germany	Feb. 6, 1907	109, 474	8, 016, 00	182. 46
3515	8weden	dol	54,745	1,045,00	91, 24
6631	Germany	Feb. 11, 1907	229,074	4, 860, 00	881, 79
7201	Sweden	do	115,682	1,709.00	192.75

Entry No.	Country of origin.	Date.	Quantity.	Appraised value.	Duty collected.
			Pounds.		
38355	Austria-Hungary Germany Austria-Hungary	Feb. 13,1907	44,800 103,012 214,872	\$852.00	\$74.67
38592	Germany	do Feb. 15, 1907	103,012	1,801,00	173.02
40715	Austria-Hungary	do	214, 872 185, 515	4, 055. 00 8, 625. 00	858, 12 809, 19
41608	Germany Norway Russia Sweden	do	113, 540	<b>2,068.00</b>	189. 23
41290	Russia	do Feb. 16, 1907	113, 540 15, 640 213, 876 122, 511	257.00	26.07
41875 42197	Sweden	do Feb. 18, 1907	213,876	4,055.00 2,108.00	356. 4 <b>8</b>
42685	do	70		<b>8,</b> 906. 00	204. 19 325. 45
43732	Germany Bweden do Norway	doFeb. 20,1907 Feb. 23,1907	42,833 54,766 90,332	811.00	71. 39
46919	do	Feb. 20, 1907	54,766	1,004.00 1,620.00	91, 28
47208 47210	Norway	Feb. 23,1907	90, 332 54, 786	1,620.00 1,004.00	150. 55 91. 31
51315	Bweden do Russia	Feb. 23, 1907 Feb. 26, 1907	79,633	1, 484, 00	132, 72
51571	Russia	do	173, 189	2, 925. 00 1, 204. 00	288, 65
58340 58916	Austria-Hungary	Mar. 5, 1907 Mar. 6, 1907	65, 275 53, 896	903.00	108. 79 89. 83
59069 59913	do	do	150.202 ]	4, 930, 00	275 51
<b>50</b> 913	Norway	do	817,631 56,000 2,033,516	8,075.00	794. 08
59939 60367	Norman	do Mar. 8, 1907	9 022 516	1,040.00 49,403.00	93. 33 5, 083. 79
63067	Sweden	Mar. 11.1907	228, 083	4.055.00	380. 14
64262	Austra-Hungary Germanydo. Norway Sweden Norway Bweden dodo. Germany	Mar. 11,1907 Mar. 12,1907	228, 083 179, 200 118, 594	3, 275. 00 2, 019. 00	298. 67
64822 67308	Germany	do Mar. 15,1907	118, 594 262, 830	2, 019. 00 4, 839. 00	189. 32 438. 05
69519	Austria-Hungary	Mar. 18, 1907	106, 197	1,958.00	176.96
71574	Sweden Austria-Hungary Germanydo.	Mar. 19, 1907	43,900	820.00	73. 17
71697 71698	dodo	do	400, 191	7,682.00 2,116.00	666.99
74530	Norway	Mar. 21, 1907	105,028 100,800	2,115.00 2,115.00	175. 05 168. 00
77453	Norway. Germany. Germany.	Mar. 25, 1907	36.081	833.00	60. 14
76680 80088	Dweden	ao	224, 427	4, 055. 00 765. 00	373. 33
SECONT	Russia	Anr. 1.1907	35, 916 30, 972	525. 00	59. 86 51. 62
87492 94948 96081	Germany	Apr. 3,1907	55, 190	1,034,00	91.98
94948	Sweden	Apr. 11, 1907	56,000	1, 044. 00 743. 00	91. 98 93. 33
97569	Germany Russia Germany Sweden Russia Sweden Norwsy Germany do Eergland Sweden Austria-Hungary Norwsy	Apr. 12, 1907	40, 539 34, 296	743.00 654.00	67. 57 57. 16
97572	Norway	do	100,800	2, 115. 00	168, 00
97714	Garmany	do	554, 482 144, 366	10, 451, 00	924.14
99072 100588	Rwaden	Apr 17 1907	144, 366 122, 130	2, 535. 00 2, 321. 00	240. 61 203. 55
100609	do	do	912 042	3,805.00	356. 57
100764 105159	England	do	44,800	813, 00	74.64
106325	Sweden. Austria-Hungary. Norway. Germany. Sweden. do. Germany.	Apr. 23, 1907	44,800 289,730 43,221	4, 461. 00 797. 00	399. 55 72. 04
106906	Norway	Apr. 24, 1907	110, 210	1,764.00	183. 68
166831 107065	Germany	do	336, 273	8,874.00	560. 46
108169	do do	Apr 25 1007	218, 433 44, 107	4, 056. 00 863. 00	364.06 73.51
180047	Germany	Apr. 27,1907	813,582	<b>5.8</b> 52.00	522. 64
111826	do	Apr. 25, 1907 Apr. 27, 1907 Apr. 29, 1907	33,598	566.00	<i>5</i> 6.00
112298 114129	Germany do Norway Sweden	Mey 2 1007	221,554 65,597	3,650.00 1,241.00	369. 26 109. 33
115434	do	do	<b>252</b> ,164	4,902,00	420. 27
117341	do. Germany. Sweden. Austria-Hungary.	May 4,1907	71,680	1,520.00	119. 47
119809 123019	Ametria_Prongary	Mar 0 1007	245,649 108,527	4,251.00	409. 42 180. 88
199977	Asstra-riungay  Norway  Norway  Germany  Rusdia  Germany	May 9,1907	248.356	1,870.00 7,137.00	620. 89
123144 126066 137004	Norway	May 10,1907	ଅଟେ ପ୍ରକଳ I	534.00	54. 97
197004	Germany	May 14,1907	55,106 45,283 101,945	1,034.00 717.00	91. 84 75. 47
197176	Germany.	do May 15,1907 do	101,945	2,339.00	169. 91
127746	8weden	May 15,1907	54,488 30,939	1.021.00	90. 81
128100	Denmark	do	30,939 253,817	611.00	51. 57
120001 120008	Sweden. Denmark Swedendo	do May 17,1907 do	190,400	4,710.00 8,391.00	423. 03 317. 33
120246		ao	110,897	1,779.00	184. 83
136363 130742	Russia		16,019 210,377	267.00 8,508.00	26. 70 350. 63
189374	do	May 18,1907 May 20,1907 May 24,1907	45,477	818.00	75. 80
126102	Danmark	May 24,1907	22.466	345.00	87. 44
138740 140982	Sweden	May 27,1907 May 29,1907 do	132.783 I	2 542 00	221. 31
14154	Sweden	do	183,575 85,992	3,418.00 545.00	305. 96 59. 99
14050	Sweden	May 31,1907	84,156	1,484.00	140, 26
14680	do	June 4.1907	<b>32</b> ,893	<b>528.00</b>	54. 82
149197	GD	June 5,1907	54,984	1,034.00	98. 88

	Country of origin.	Date.	Quantity.	Appraised value.	Duty collecte
Ī			Pounds.		
1	Germany.  Sweden.  do Germany.  do Sweden. Russia. Austria-Hungary. England. Norway. Germany. Sweden. Norway. Sweden. Norway. Sweden. do	June 5,1907	53,792 219,940 33,600	<b>\$904.00</b>	\$80.
١	Sweden	do	219,940	4,116.00 654.00	\$73.
1.	do	June 6,1907	33,600	654.00	56.
ł	Germany	June 7,1907	383,319 300,644	6,815.00	638. 901.
1	Sweden	do	151,270	5,836.00 2,891.00 908.00	252
١	Rnaria	June 12 1907	54,335	908.00	90.
١	Austria-Hungary	June 13,1907	293.345	5,440.00	488.
1	England	do	293,345 82,340	ezo.oo	53.
1	Norway	do	107,882	1, 795. 00 4, 264. 00	179.
l	Germany	do	242, 934	4, 264.00	404.
l	Sweden	do	227,000	8, 556.00	373.
l	Norway	do	82, 368	651.00	53.
l	Sweden	June 14, 1907	43, 270	826.00	72. 186.
ŀ	<u>qo</u>		112,000	2, 073. 00 4, 056. 00	367.
ŀ	00	June 17,1907	220, 548 221, 646	4,055.00	369.
ŀ	Germany	June 21, 1907	211 256	4 734 00	352
l	do	June 24, 1907	403, 165	4, 734, 00 9, 785, 00	821.
ľ	Netherlands	June 25, 1907	211, 256 493, 165 107, 396	2, 449, 00	178.
ı	Sweden	June 26, 1907	30, 016	620.00	50.
I.	Sweden	do	30, 016 207, 752	3, 568. 00 10, 958. 00	346
ľ	Germany	do	522,090	10, 958. 00	870.
١	Sweden	June 27, 1907	294, 991	5,304.00	<b>(491.</b>
ŀ.	do	June 29, 1907 July 1, 1907	<b>2</b> 51, 965	4, 637. 00	493.
ŀ	do	June 29, 1907	101,975	1,855.00	160.
l	Russia	July 1, 1907	142, 440	2, 122, 00	237.
l	Sweden	qo	99,071	1,900.00	165.
l	Germany		263, 041 183, 215	4,075.00	438. 305.
l	Sweden Germany Sweden Austria-Hungary	Tuly 9 1007	661,099	3, 586. 00 15, 630. 00	1,652.
ı	Sweden	July 2, 1907	223, 341	4, 146. 00	372.
l	England	July 2, 1907 July 8, 1907 July 9, 1907	33,600	620.00	56.
ı	Sweden	do	130, 675	2, 507, 00	217.
I.	do	do	112,000	2,507.00 1,793.00	186.
ľ	England. Swedendo. Germany	dodododododododo.	489, 128	7, 422. 00 8, 961. 00	815.
l	Sweden	July 10, 1907	224, 922	8,961.00	373.
	Norway	do	112,000	1, 892. 00 8, 576. 00	186.
l	Sweden Norway Germany Bweden	July 11, 1907	561, 595 219, 245	8, 576. 00	935.
	Bweden	do	219,245	4, 111. 00 1, 916. 00	365.
ŀ	A statela Transport	July 12, 1907	112, 611 43, 255 16, 061 109, 777	588.00	187. 72.
	Puggia	Tuly 15, 1907	16 061	254.00	26.
١	Norway	40, 100	109,777	1.825.00	186.
١.	do	do. July 16, 1907 do	108, 143	1,795.00 7,885.00	180.
ľ	Germany.	July 16, 1907	108, 143 480, 252	7, 885. 00	800.
١	Norway	do	53,600	985.00	80.
۱	Sweden . do . Austria-Hungary . Russia . Norway do . Germany . Norway . Germany . Roswadon		53,600 108,750	1,883.00	181.
l	8weden	do	110, 159	1,857.00	183.
l	Norway	do	109, 445	1,825.00	186.
l	Germany	July 17, 1907	55, 310 59, 485	1,034.00	92
I	A untido Timpoper	T-1- 10 100-	59, 485 172, 514	1,121.00	99. 287.
١	Norman	4m3 18,1801	224,000	3,407.00 3,659.00	373.
I	8weden Norway Cermany Russia Austria-Hungary Norway 8weden do Germany Russia Sweden Russia Bweden Russia Sweden Norway do Sweden	July 20 1007	112,000	1,884 00	186
١	do	do	395, 362	1,884.00 6,822.00	.658
ľ	Germany	July 22, 1907	289, 911	A AMB M	409
ŀ	Russia.	July 24, 1907	153,606 112,748 4,253	2,915.00	256
1	Sweden	do	112,748	1.806.00	187.
l	Russia	July 25, 1907	4,253	83.00	7.
l	Sweden	do	22, 400	889.00	87.
l	Norway	do	836,000	5, 475. 00 1, 828. 00	500.
ŀ	do	do	109,881	1,828.00	183
ĺ	Sweden	qo	56,000	942.00	93
ŀ	Q0	do	146,244	2,433.00 8,489.00	343. 344.
ŀ	do.	do	206, 411 21, 756	405.00	36.
ľ	do do Germany	July 28 1007	1, 171 404	90 091 00	1,962
١	Rweden	July 28, 1907 do	1,171,494 132,368	2 635 00	1,220
١	Bweden do Germany Sweden	Aug. 3.1907	120, 138 100, 770 200, 266	2.003.00	200
١	Germany	do	100, 770	2,054,00	167
١	Germany do Norway	do		2,054.00 8,715.00	378
1	do	Aug. 5, 1907	109,860	) 1022 M	1903.
1	Germany	do	111, 141	8, 154.00	185.
!	do	Aug. 7, 1907	58.328	1.034.00	88
1	Norway Swedendo	op	56,000	1,064.00	93. 70
1			42, 162	563.00	. 76

	Country of origin.	Date.	Quantity.	Appraised value.	Duty collected
7			Pounds.		
ı	Norway	Aug. 7.1907	448,832	\$7,981.00	\$748.0
ı	Norway Russia Norway	do	44.802	961.00	112.0
ł	Norway	Aug. 8, 1907	40, 938	852.00 8,455.00	68. 2 874. 9
ı	Bweden	Aug. 9, 1907 Aug. 10, 1907	224, 980. 228, 803	<b>8, 500.00</b>	281. 8
ŀ	England	Ang. 14, 1907	86, 586	4, 171. 00 1, 205. 00 8, 806. 00	144.8
L	Germany	Aug. 14, 1907 Aug. 17, 1907	222, 951 44, 800	8, 806. 00	371. 5
ı	Germany Sweden	Aug. 19, 1907	44,800	753.00	74.6
ŀ	do	do	84,618	1,471.00	149.3
ŀ	dododo Russis Sweden Norway Germany Swedendodododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododo	do	232, 917 790, 387	4, 077. 00 12, 883. 00	388. 2 1,317. 3 35. 3
l	do	Ang. 20.1907	21, 181	457 00	35-3
ľ	Russia	do	52, 517	1 008 00	87. 5
	Sweden	do	190, 400 226, 380	8.391.00	317.3
	Norway	Aug. 21, 1907	226, 380	3, 650. 00 2, 363. 00	377.3
	Germany	Aug. 23, 1907	99, 068 63, 325	2,363.00	165. 1 105. 5
l	до	Aug. 20, 1907	429,860	1, 124. 00 7, 222. 00	716. 4
•	do	do	53,067	959.00	RR. 4
	do	do	101,060	1.860.00	88. 4 180. 1
١.	do	do	197, 434	3,746.00	329.0
ŀ	do	do	187, 581 67, 711 34, 333	3, 297. 00	812.6
•	do	Aug. 21, 1901	07,711	1,020.00	112.8
ı	do	do	262,666	577.00 6,566.00	56. 1 421. 1
ľ	do	Aug. 28, 1907	454, 440	7,300.00	757. 4
ľ	do	do	224,000	8, 401. 00	373.3
l	Germany	do	211,316	3.810.00	352.1
l	Austria-Hungary	Aug. 29, 1907		3, 825. 00 12, 763. 00	330. 2
	Germany	go	776, 294	12,763.00	1,293.8
	Dueda	A110 31 1007	268, 212	4, 674. 00 2, 507. 00	447. 0 257. 1
	Germany	Sept. 3, 1907	16, 298 65, 827	1,101.00	109. 7
ļ.	do. Norway Sweden. Germany	do	40.815	924.00	68. (
	Norway	do	224,000	3, 991. 00	873. 2
ı	Sweden	Sept. 4, 1907	55,000	947.00	93. 3
ı	Germany	Sept. 4,1907 do Sept. 5,1907	53, 517 218, 277	1,034.00 3,866.00	98.2
ŀ	do. Sweden Germany Sweden	do	115,321	2,063.00	363. 8 192. 3
	Germany	do	522, 875	9, 062, 00	871.
	Sweden	do Sept. 6,1907 do	522, 875 68, 184	9, 062. 00 1, 294. 00 4, 171. 00	113. (
		do	l 230.370 i	4, 171. 00	383.1
٠			67, 196 64, 368	1, 113. 00 1, 740. 00	111.
	do	Sept 7 1007	04,308	1,740.00 615.00	168. 56.
ŀ	Germany	Sent 10 1907	33,600 110,577	2,353.00	184.
	England.	Sept. 12, 1907	1 KK 914 I	641.00	92.
	Germany England Germany do	Sept. 7, 1907 Sept. 10, 1907 Sept. 12, 1907 Sept. 12, 1907 do. Sept. 16, 1907 Sept. 18, 1907	221,535 120,018 112,000	8,496.00 2,921.00	369.
ŀ	do	Sept. 16.1907	120,018	2,921.00	200.0
ı	Sweden	Sept. 18, 1907	112,000	1,693.00	186.
ŀ	do	do	266, 376 251, 230	4,684.00 3,954.00	443. 418.
ľ	Germany	do	233, 510	4,886.00	389.
ı.	dodoGermanydo.	do Sept. 19, 1907	251,339 233,510 133,261	2,463.00	221.
ŀ	do. do. do. do. do. do. do. do. do. do.	do	182,031	2,974.00	303.
ŀ	do	Sept. 24, 1907	21,813	511.00	36.
ı	bweden	Sept. 25, 1907	263, 157 84, 036	4,650.00	438. 140.
ľ	do.	Sept. 27, 1907	44,446	1,535.00 754.00	74.
l.	do	do	52,850	1.018.00	88.
١.	do	do	45,637	864 00	76.
ŀ	do	Sept. 30, 1907	223,061	8,906.00 2,002.00	871.
ŀ	ao	Oct. 1, 1907	110,372	2,002.00	188.
١	Cormany	do	225,627 54,764 433,571	3,650.00 1,034.00	376. 91.
١	Norway	do	433, 571	7,300.00	722.
١	Germany	Oct. 2, 1907	202,446	4,402.00	337.
ŀ	do	do	202,446 108,900	2,649,00	181.
١	do. do. do. do. Norway Germany Norway Germany do. Austria-Hungary de. do.	Oct. 4,1907	212, 199 210, 999 162, 571	8, 683. 00	<b>3</b> 53.
١				1 8.840.00	351.
ŀ	Awadan	ao	126,973	2,554.00 2,320.00	270. 211.
۱	Gothenburg, Sweden	.do	246,400	4,099.00	410.
1	Sweden	Oct. 5, 1907	39,960	764.00	66.
١	900 Sweden. Gothenburg, Sweden. Sweden. do. Norway. do. Germany.	Oct. 9,1907	246, 400 39, 960 166, 087	2,826.00	276.
١	Norway	Oct. 10, 1907	425, 363	7,451.00	708.
П		00	1,120	19.00 <b>8,3</b> 01.00	329.

7	Country of origin.	Date.	Quantity.	Appraised value.	Duty collected
			Pounds.		
3	SwedenGermany	Oct. 11, 1907 Oct. 15, 1907 Oct. 16, 1907	111,326 28,557	\$1,693.00 877.00	\$185.55 71.39
	Graden	Oct. 18 1907	เ 195 ค∩ฉเ	2 033 00	309. 35
1	Sweden. Norway do. Germany	Oct. 16, 1907 do. Oct. 17, 1907 do. Oct. 21, 1907 Oct. 26, 1907	448,000 171,228 69,217 48,248	2,933.00 7,300.00 2,816.00 1,956.00	746. 67
i J	do	Oct. 17, 1907	171, 228	2,816.00	285, 28
5	Germany	do	69, 217	1,056.00	115.36
2	do	Oct. 21, 1907	48,248		80.47
5	Sweden	Oct. 26,1907	i 80.3¥Ui	1,535.00 1,857.00 4,190.00 1,913.00	143.98 175.83
3	dododododododododo	ao	105,495	4 190 OD	432. 81
3	do	do Oct. 28,1907 Oct. 29,1907 Oct. 30,1907	259,688 106,201	1.913.00	177.00
1 1	70	Oct. 29,1907	1 81.395	1.200.00	135.6
3	do. Norway Sweden. Norway	Oct. 30,1907	193,757	4,104.00 9,066.00	822, 98
8	Norway	1 10	602.453	9,066.00	837.42
Ļ	Sweden	dodo Oct. 31,1907 Nov. 4,1907	43,467 165,227	740.00	72. 45 275. 26
3		Oct. 31,1907	105,227	8,264.00	275.26
2	Sweden Germany do Austria-Hungary Sweden	Nov. 4,1907 do. 7,1907 Nov. 8,1907 Nov. 9,1907	239,989	4,443.00 1,294.00 12,010.00 8,479.00 679.00	399. 98 187. 66
5	do.	Nov 7 1007	82,594 621,530 186,562	12 010 00	1,035.88
7	Austria-Hungary	Nov. 8,1907	186.562	8,479.00	310.94
i	Sweden	Nov. 9.1907	1 44.797 I	679.00	74.00
5	Russia	do	ไรคิดดว่	2,646.00	260.00
L	Sweden	Nov. 11,1907	109,475	2,002.00	182. 46
3	Germany	do	109, 475 52, 794	1.068.00	87.99
	Austria-Hungary Sweden Russia Sweden Germany Sweden do do	do	I 40U.UUU I	4,558.00	466.67
9	do	Nov. 12,1907	243,382	4,425.00 1,693.00	405.64
7	do	NOV. 13,1907	110,503 82,881	1,093.00	184. 17 188. 14
3	do	do	425,678	1,528.00 7,300.00 2,338.00	709. 46
ı	do	do Nov. 15,1907 do	134,400	2,338.00	224.00
١	do. Germany. England Sweden.	l do	224.996	3.455.00	874.90
	Germany	Nov. 19,1907 Nov. 21,1907 do	248,809	8.731.00	414.68
	England	Nov. 19,1907	372,880	614.00	54.80
1	Sweden	Nov. 21,1907	166,879	2.803.00	278, 18
			414,400	7,382.00	690. 67
	Germany	do	186, 530	3,594.00 963.00	810.06
ł	Gweden	NOV. 23,1907	44,798 85,256	1 525 00	74.66
1	Norway	Nov 26 1907	200 770	1,535.00 8,396.00	142.00 349.63
	Germany do. Sweden Norway Russia	do	209,779 16,497	1,493.00	27.50
ı	Russia. Germany Sweden	do	1541	2 00	26
i	Sweden	do	106,766 106,874 38,166	1,856.00 1,856.00 680.00	177.94
ıI	do	do	106,874	1,856.00	178, 12
	. <u></u> do	Nov. 27, 1907	38,166	680.00	63.61
3	Germany Norway Sweden do Germany	do	41,861	842.00	69.77
1	Rwoden	Nov 20 1007	198,322	8,326.00 5,736.00 8,096.00	830. 54 536. 42
5	do	do	321,850 185 344	3,096.00	308.91
2	Germany	do	596.539	9.678.00	994, 23
ōl	Germany Swedendo Austria-Hungary Swedendo	do	225 800	8, 455, 00	876. 32
5	do <u></u>	Dec. 2, 1907	273, 452	4, 622.00	455.75
5	Austria-Hungary	do	31.379	443.00	32. 30
3	Sweden	Dec. 7, 1907	52, 324	931.00	87. 21 170. 01
2	Q0	do	102,003	2, 150. 00	323.96
3	Germany. Sweden do do do .	do	194, 373 1, 108, 014	4, 446. 00 18, 042. 00	1,846.00
:	do	do	61,800	1, 160, 00	103.00
4	do	Dec. 9.1907	270, 356	4, 639. 00	450, 89
3	Russia	do	16, 192	261.00	26.99
3	Sweden	Dec. 11, 1907	107,899	1,692.00	179.88
1	do	do	237,040	8, 940. 00	395.07
П	do	do	105, 286 386	2,002.00	175. 48
4	Vermany	Dec 12 1007	440, 242	6.00 7,786.00	. 64 733. 74
5	Cormony	do. 13, 1907	314.538	6 137 00	524. 23
3	do	Dec. 16.1907	829,760	5, 259, 00	549.60
3 1	do. Russia Sweden do do do Germany Germany do Sweden	do	63, 817	6, 137. 00 5, 259. 00 1, 221. 00	549.60 106.86
7		do	217, 800	3.455.00	263.00
4	dodododododo	Dec. 17, 1907		1 204 00	116. 51
1	do	do	133, 518 109, 948	2, 838.00 1, 794.00	222. 58
5	do	Dec. 21, 1907	109.948	1,794.00	183. 25
6	do	do	124, 237	2, 423, 00 8, 715, 00	207. 06
9	ao	Dec. 23, 1907	211, 369	8,710.00	352. 28
8	do. Germany Sweden do.	Dec. 17, 1907  do Dec. 21, 1907  do Dec. 23, 1907  do Dec. 26, 1907  do Dec. 27, 1907	54, 279 56, 000	846.00 924.00	90. 47
2	do	do	169, 664	2, 963. 00	93. <b>3</b> 3 262. 77
			189,025	3, 361.00	816.00

## CHEMICALLY UNBLEACHED-Continued.

	Country of origin.	Date.	Quantity.	Appraised value.	Duty collected
ļ —			Pounds.	-	
G	rmany	Dec. 27, 1907	387,986	<b>86, 850, 00</b>	\$646.6
٠.	do	Dec. 30, 1907	617	34.00	1.0
81	ermanydoveden	do	119,045	2, 110.00	198. 4
×	necia.  Prinary  Prodes.  Prinary  Podes.  do.  do.		16, 104	267.00	26.8
监		QO	422, 051 174, 410	6, 308. 00 4, 082. 00	708. 4 200. 6
2	winery	1811. 0, 1905	134, 392	2, 104. 00	223.9
ă	neden .	do	216, 647	8, 455.00	361.0
	do.	Jan. 9.1908	29,009	645.00	48. 8
	. do	Jan. 14, 1908	226, 162	5, 680, 00	543. 6
G	emany		52,518	1 024 00	87. 8
Ş٧	vedenvedenveden	Tam 16 1000	101,444	1, 918, 00 9, 228, 00	109.0
G	many	Jan. 17, 1908 Jan. 24, 1908	418,672	9, 228. 00	697. 7
	do	Jan. 17, 1908	31,059	556.00	51.7
21	Vecker	Jan. 24, 1906	238, 604 110, 722	3,801.00	397. 6
	orway	Jan. 25, 1908	110,722	1,830.00 974.00	184. 8 93. 3
91	do		56,000 213,229	8,715.00	365.3
Ŕ	doredea	Jan. 27, 1908	19,060	273.00	31. 7
Ř,	reden	Ian 27 1908	55, 147	927.00	93.3
	_do	do	28, 437	845.00	47.
	de	Jan. 28, 1908	28, 437 62, 970	1,141.00	104.9
	do	Jan. 30, 1908	43,925	707.00	73. 2
	redendododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododo	Jan. 31, 1908	112,000	2,002.00	186.6
R	uasia	do	1 106.582	2,041.00	177. 6
81	veden	do	93,092	1,692.00	155. 1
Ň	orway	do	1 462,835	752.00	71. 8
ģ,	veden	do	79, 430	1,486.00	132. 3
×	orwaydo	do	54, 523	919.00	90.8
u	do.	Feb 1 1000	210,523	4, 203. 00 4, 028. 00	350. 8 476. 2
ä		Feb. 1, 1900	285,747	1.913.00	180.
	do	do Feb. 3,1908	108, 557 22, 399 110, 842	289.00	37. 3
N	OFWAV	do 3,1000	110 842	1, 795. 00	184. 7
Š.	veden	Feb. 7, 1908	I AAS SEAN	802.00	117.
	do	Feb. 8.1908	23 128	298.00	38. 5
G		Feb. 10, 1908	269, 068 36, 778 53, 008	4, 889. 00 721. 00	448. 4
	do	Feb. 17, 1908	36,778	721.00	61.3
81	veden	do	53,008	973.00	88.3
N	orway	do	<b>5</b> 6, 651	1,006.00	94.4
81	veden	do	554,021	9, 533. 00	923.
÷:	orway veden do ussla ermany orway veden do do do do	do	33,069	682.00 958.00	55. 1
2	ussia	Feb. 18, 1906	56,391 1,009,819 107,903	10 754 00	93. 6 1, 683. 6
N	orwey	do	107 003	19,754.00 1,913.00	179.
â٠	raden	do	34,670	591.00	57. 7
	.do	Feb. 24, 1908	110,758	1,961.00	184.6
	do	do	105,546	1 888 00	175. 9
G	ermany	do	105, 546 238, 225	4,008.00	397.0
B٦	weden	Feb. 25, 1908	52,860	1 075 DO	88.1
Ā	ustria-Hungary	do	83,689	1,523.00	139,
K	do	Feb. 27, 1908	105,737	1,834.00	176.
51	do	go	112,000	2,002.00	186.
ä	u	do	56,000	884.00 4,078.00	93. <b>34</b> 5.
ă.	reden	do	207,115 55,201	924.00	92.
ã	armany	Mar 2 1908	43,489	990.00	72.
S	ermany weden ermany weden orway de	do	107,464	1,949.00	179.
G	ermany	Mar. 3,1908	54,268	816.00	90.
S	veden	Mar. 5,1908	108,458	2,002.00	180.
Ň	orway	do	44,333	831.00	73.
81	reden	Mar. 6,1908	324.639	<b>5,829</b> .00	541.
		do Mar. 7,1908	2,580	43.00	4.
•••	. do	mar. 7,1908	56,620	1,019.00	94. 130.
••	do	Wer 10 1000	78,398	1,237.00	130. 163.
ö	. do	Mar. 12,1908 do do do Mar. 14,1908	98,265	1,635.00 2,105.00	185.
			111,303	939.00	93.
Ř	18818	do	55,000 55 AA1	923.00	92.
Ç.	ermany	Mar. 16.1009	56,000 55,661 559,278	8,101,00	932.
Š	veden	Mar. 23.1908	461.757	7,803.00	760.
	veden smany veden do. do. smany	Mar. 24.1908		2,023.00	180.
	do	Mar. 28, 1908	166,061 44,167 53,448	8,144.00	276.
N	DEWST	Mar. 30, 1908	44, 167	886.00	73. 80.
741				810.00	

As entered; entry not liquidated.

## CHEMICALLY UNBLEACHED-Continued.

Entry No.	Country of origin.	Date.	Quantity.	Appraised value.	Duty
			Pounds.		
72177	Sweden	Mar. 30, 1908	156,795	82,711.00	8261.2
72179	do	do	56,000	1.019.00	92.1
72709	ldo	do	96,456	1,711.00	180.7
77576	do	Apr. 6.1908	44,800	738,00	74.6
78953	Germany	Apr. 8,1908	158,930	2,960.00	264.8
79269	Sweden	ldo	103,821	1,888.00	173.0
80038	do	do	52,929	838.00	88.2
79130	Austria-Hungary	do	48,744	773.00	72.9
80271	Germany	Anr. 9.1908	106,227	2,112.00	177.0
80748	Norway	do	99,738	1,792,00	166.2
83559	Norway Germany	Apr. 14,1908	266,409	4,813.00	444.0
48858	8weden	do	20,887	643.00	51.4
86151	Germany	Anr 17.1908	167,991	2,563.00	279.9
86990	Sweden	do	113,927	1,917.00	180.8
86641	do	Apr 18,1908	206, 221	8,270.00	342.0
87201	do	do	56.345	936.00	92.0
89028	do	Apr 21 1008	56,700	907.00	94.6
90006	Russia	ADE 22 1008	109,783	1.839.00	182.1
90170	Russia Sweden	21p1. 22, 1000	220,621	3,685.00	267.7
90247	Sweden	do	54, 891	970.00	01.4
90507	Germany.	Anr 23 1008	318, 163	6, 391.00	530. 2
12220	do	Apr. 20, 1900	252,756	5, 878.00	421. 2
91561	Austria-Hungary	40	39, 936	783.00	66.5
91511	Germany	A 24 1008	265, 228	4.781.00	442.0
91901	Russia	Apr 25 1008	88, 521	1,483.00	107.1
92928	Germany. Russia. Sweden	Ann 97 1000	618,055	10. 621. 00	1.030.0
92624	do	Apr. 21,1000	43,703	733.00	72.8
93433	Germany	do	113, 176	1,644.00	188.
96884	do	May 1,1908	11.200	162.00	18
97599	Swedendo	May 2,1908	60,743	1.352.00	101.
99132	do	May 6.1908	113,009	2,050.00	188.
00490	Anetrie-Hungary	May 7 1008	61, 338	1,033,00	102.9
02583	Germany	May 11 1008	461, 564	6,957.00	694.2
05596	Austria-Hungary Germany Norway	May 14 1908	125, 255	2, 349, 00	208.7
05971	Sweden	May 15 1000	111, 162	2,068.00	188. 2
05972	do	, do, 1900	\$6,000	1,019.00	93.1
06719	do	do	44, 800	785.00	74.6
08133	do		112,000	1, 888, 00	186.6
09818	do	May 20 1008	56,000	973.00	90.1
09942	Norway		49.020	1,148,00	122.5
10327	Germany	do	275.575	4.817.00	450.2
113145	Sweden	May 25, 1908	109, 696	1,918.00	182.8
13763	Cormony	May 20, 1900	41.888	968.00	102.8
15576	Germanydo	May 20, 1900	219.826	3, 332, 00	366.8
115683	Sweden	may 20, 1906	1, 138, 860	19, 314, 00	1.898.1
16154	do	May 29, 1908		775.00	74.6
10104		may 20,1905	44, 800	770.00	/4.0
	Total	I	76,667,720	1, 874, 540, 00	129, 784. 1

### CHEMICALLY BLEACHED.

S875   Germany   Jan. 9,1907   194,494   5,206.00     10725   Austria-Hungary   Jan. 14,1907   841,144   18,699.00   2,   13395   Germany   Jan. 16,1907   136,703   3,125.00     18907   do	
8375   Germany   Jan. 9,1907   194,494   5,206.00   13795   Austria-Hungary   Jan. 14,1907   841,144   18,699.00   2,13395   Germany   Jan. 16,1907   136,703   3,125.00   18907   do   Jan. 22,1907   312,945   8,087.00   1,009.00   33,563   785.00   785.00   33,563   785.00   32,033   Germany   Go   127,022   3,281.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.00   1,009.0	
10725   Austria-Hungary   Jan. 14, 1907   841, 144   18, 699, 00   2, 13395   Germany   Jan. 16, 1907   136, 703   3, 125, 00   18907   do   Jan. 22, 1907   312, 945   8, 087, 00   20299   Norway   Jan. 24, 1907   664, 715   16, 412, 00   1, 20431   do   do   33, 563   785, 00   20533   Germany   do   127, 029   3, 281, 00   20131   Norway   do   428, 470   10, 609, 00   1, 21951   do   Jan. 25, 1907   344, 688   8, 065, 00   22117   do   do   976, 872   23, 343, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   3	105. 25
10725   Austria-Hungary   Jan. 14, 1907   841, 144   18, 699, 00   2, 13395   Germany   Jan. 16, 1907   136, 703   3, 125, 00   18907   do   Jan. 22, 1907   312, 945   8, 087, 00   20299   Norway   Jan. 24, 1907   664, 715   16, 412, 00   1, 20431   do   do   33, 563   785, 00   20533   Germany   do   127, 029   3, 281, 00   20131   Norway   do   428, 470   10, 609, 00   1, 21951   do   Jan. 25, 1907   344, 688   8, 065, 00   22117   do   do   976, 872   23, 343, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   Netherlands   do   44, 736   1, 119, 00   2, 2358   3	496, 24
18907     do.     Jan. 22,1907     312,945     8,087,00       20299     Norway.     Jan. 24,1907     664,715     16,412,00     1,102,00       20431     do.     do.     33,563     785.00       20533     Germany.     do.     127,029     3,281.00       21031     Norway.     do.     428,470     10,609.00     1,102,00       21951     do.     Jan. 25,1907     344,688     8,065.00     22117     do.     40.     975,872     23,343.00     2,212,00       22358     Netherlands     do.     44,736     1.119.00     1,119.00	02, 86
18907     .do.     Jan. 22, 1907     312, 945     8,087,00     1       20299     Norway.     Jan. 24, 1907     664, 715     16, 412,00     1,1       20431     .do.     .do.     .33, 563     785,00       20533     Germany.     .do.     .127,029     3,281,00       21031     Norway.     .do.     .428,470     10, 609,00     1,1       21951     .do.     Jan. 25, 1907     344,688     8,085,00     22117     .do.     975,872     23,343,00     2,22358       Netherlands     .do.     .44,736     1,119,00     2,00	16. 76
20299   Norway   Jan. 24, 1907   664, 715   16, 412, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1, 00   1,	782. 26
20431     do     33,563     785,00       20533     Germany     do     127,029     2,281.00       21031     Norway     do     428,470     10,009.00     1,       21951     do     Jan. 25,1907     344,688     8,065.00     2       22117     do     975,872     23,343.00     2,       22358     Netherlands     do     44,736     1,119.00	61. 79
20533     Germany     .do.     127,029     3,281.00       21031     Norway     .do.     428,470     10,609.00     1,       21951     .do     Jan. 25,1907     344,688     8,065.00       22117     .do     .do     975,872     23,343.00     2,       22358     Netherlands     .do     .do     1,119.00	83. 91
21031   Norway	17. 57
21951 do Jan. 25,1907 344,688 8,065.00 2 22117 do 975,872 22,343.00 2, 22358 Netherlands do 44,736 1.119.00	771. 18
22358   Netherlands	61. 72
22358   Netherlands	139. 65
	IL 48
23008 Norway Jan. 26, 1907 67,086 1,557.00	67. 72
	39. 96
23233 Russia	36, 69
27013   Germany	32. 50
20216 do Feb. 2 1907   86 302   2 270 00   9	115. 76
80232 Russiado	115. 20
22850   Norway   Feb. 6, 1907   212, 920   8, 675, 00	782. 30
33408 do Feb. 7.1907 33.559 779.00	83, 90
88517do	353. 35
36054 Russia	65, 08
\$7245 Netherlands Feb. 13, 1907 21, 248 561, 00	<b>P</b> 12

Entry No.	Country of origin.	Date.	Quantity.	Appraised value.	Duty collected.
			Pounds.		
41290 46579	Russia		67,822 1,028,853	\$1,516.00 24,708.00 9,063.00	\$169.56 2.572.13
46882	do. Austria-Hungary Russia. Germany.	Feb. 21, 1907	886, 418 221, 922 42, 842 566, 796	9,063.00	2,572.13 966.05
47370	Austria-Hungary	Feb. 23, 1907 Feb. 26, 1907 Feb. 27, 1907	221,922	4,959.00 1,025.00 15,823.00	554.80
51571 52136	Germany	Feb. 27, 1907	62, 842 568, 796	1,025.00	107.11
53102	do	Feb. 28, 1907			1, 421. 99 473. 47
53746 55925	Netherlands	Mar. 1,1907	22,516	552.00	56. 29 776. 80
61249	do Netherlands Austria-Hungary do Norway	Mar. 1, 1907 Mar. 4, 1907 Mar. 9, 1907 Mar. 15, 1907	22, 516 810, 720 205, 772 839, 730	552.00 6,728.00 4,809.00 8,075.00	514.43
66482	Norway	Mar. 15, 1907	839,730	8,075.00	849, 33
67646 72189	do Germany do Norway	Mar. 20, 1907 do Mar. 21, 1907	4660.369	10,812.00 5,702.00	1,089.92 528.14
72189 73264	do	do	211, 256 41, 659	1,116.00	104.18
75126 76679	Norway	Mar. 21, 1907	923,066	1,116.00 22,296.00 2,034.00	2,307.67
77458	Austria-Hungary Germany do.	Mar. 25, 1907	84,976 176,401	5,509.00	212. 44 441. 00
80088	do	Mar. 23, 1907 Mar. 25, 1907 Mar. 27, 1907	176, 401 205, 870	5, 496. 00 1, 058. 00	514.68
80616 81010	do		33,854 21,856	1,058.00 585.00	84. 64 54. 64
84691 85041	Netherlands Germany Russia Austria-Hungary	Apr. 1,1907	155, 496	8,913,00	388, 74
85041	Russia	do	155, 496 176, 744 452, 106	4, 082. 00 10, 045. 00	441.86
86139 86143	Germany Russia Austria-Hungary do Germany Norway Germany Norway Germany Germany Germany do Russia Germany do	Apr. 2,1907	462, 106 64, 507	10,046.00 1,527.00	1, 130. 27 161. 27
87133	Germany	Apr. 3, 1907	29, 259	851.00	73. 15
87319 87399	Norway	do	342,720	8,075.00	856. 80
88141	Norway	Apr. 4.1907	342,720 6,977 1,310,598	189. 00 <b>83</b> , 044. 00	17. 44 3, 276. 50
95081	Germany	Apr. 12, 1907	402,056	חח וספיתו	1,005,14
97716 98111	do	Apr. 18, 1907	90, 544 90, 683	2,702.00 2,042.00 5,351.00 8,003.00	226. 36 226. 71
98483	Germany.	do	198,960	5, 351. 00	497. 40
99015	do	do	806, 033	8,003.00	765. 08
100031 100022	Anstria-Hungary	Apr. 17,1907	419, 297 638, 282 21, 165	10, 081. 00 14, 067. 00 495. 00	1,048.24
101585	do	do	21, 165	495. 00	1,595.70 52.91
105011	Germany Netherlands Norway Germany	Apr. 24, 1907 Apr. 25, 1907 Apr. 26, 1907 May 1, 1907 May 2, 1907 May 8, 1907 May 9, 1907 May 9, 1907 May 4, 1907	124.402	<b>8,77</b> 9.00	811. 01
107081 108975	Norway	Apr. 26, 1907	15,307 967,023	407. 00 24, 807. 00	38. 27 2, 417. 56
113579	Germany	May 1,1907	216.100	4, 503. 00 10, 081. 00	540, 25
114450 115871		do	432, 420	10,081.00 20,552.00	1,081.05
119612	do. Germany Netherlands Austria-Hungary Germany Norway Netherlands	May 7, 1907	866, 180 205, 104	5, 265. 00	2, 165. 45 512. 76
120747	Netherlands	May 8,1907	83,200	818 00	83, 00
123183 126582	Germany	May 14, 1907	499, 632 201, 740	11,747.00 5,292.00	1,249.08 504.35
127840	Norway	May 15, 1907	829.149	8,075.00	822. 87
128065 128528	Netherlands	May 15, 1907	18,966 198,026	550.00	47. 42 495. 07
120253	Russia		185 548	4,974.00 8,063.00	235. 07 238. 87
130846	Austria-Hungary	do	21,612	J566. (YO	54, 03
133528	Russia. Austria-Hungary. Germany. Dresden, Germany.	May 22, 1907	21, 612 209, 494 134, 968	5, 267. 00 8, 372. 00	523. 74 837. 42
130618	Norway	May 28, 1907	371,542	8,871.00	928. 86
141507	Norway	May 28, 1907 May 31, 1907	! 11.200	262.00	28.00
142567 143596	Austria-Hungary	June 1,1907	22,000 464 475	510.00 11 840.00	55.00 1,161.19
TARRES	Germany	June 4, 1907	464, 475 213, 147	11,840.00 6,128.00	532. 87
146509 146608 152715	Norway	June 5,1907	285,544 242,982 615,201 208,568	7,149.00 6,249.00 16,126.00 5,206.00 3,243.00	713. 86
182715	Norway	June 12.1907	615,201	16,126,00	607.46 1,538.00
152758	Russia	do	208,568	5,206.00	528. 42
186383 186906	Germany	June 14,1907	127,825 105,633	3,243.00 2,582.00	319. 56 264. 08
156805 158659	Netherlands	June 18,1907	21,773 107,323	532 OO	54. 43 268. 31
162339	Russia	June 22,1907	107,323	2,591.00	268.31
162813 168945	Russia Austria-Hungary Germany Norway Germany	June 27,1907	54,543 516,545	2,591.00 1,297.00 13,270.00	136.36 1,291.36
167012 168 <b>3</b> 06	Norway	June 28,1907	109,116	2,001.00	1,291.36 272.79
168306 170143	Germany	June 28,1907	478	8.00 6,490.00	1.20
178225	Germany	July 5,1907	142,444 258,418	K 469 AA	726. 51 646. 05
178388	Russia	July 9,1907	210.206	5,171.00 15,630.00	527, 22
172157 188605	Austria-Hungary	July 11,1907	661,099 113,900	15,630.00 2,512.00	1,652.75 248.75
184858	Germany Russia Germany Russia Austria-Hungary Russia Netherlands	July 16,1907	74 600	908.00	26 72
185611	Netherlands. Germanydo.	July 17,1907	41,236 667,394	1,239.00 17,779.00	103.09
185486	0D	July 17,1907	667,394	17,779.00	1,668.49

	Country of origin.	Date.	Quantity.	Appraised value.	Duty collected.
			Pounds.		
9	Austria-Hungary	July 17, 1907 July 22, 1907	591,807	\$15,939.00 4,273.00	\$1,479.53 498.31
4	do	July 22,1907	199,823 460,695	11,818.00	1,151.74
2	Germany Russia Sweden. Netherlands	July 24,1907 July 25,1907 doJuly 26,1907	27,149	788.00	67.87
8 6	Sweden.	do	128,007	8,249.00 765.00	230.02 70.66
3	Germany	July 20,1907	28,265 239,520	6,846.00	#96.80
9	do	July 30,1907 July 81,1907	1 20.916 1	597.00	52, 20
8	Germanydodododododo.	Aug. 6,1907 Aug 13,1907	219,679 199,260	7,795.00 5,848.00	729. 20 498. 15
0	do	Aug 13,1907	130,913	18 2987 00	327. 28
6	dodo. Russia. Austria-Hungary. Germany.	Aug. 20,1907	319,104	8,189.00 9,207.00 21,301.00	797. 76
5	Russia	do	343 538 1	9,207.00	858.84
8	Austria-Hungary	do	921,152 39,639	1,239.00	2,302.86 112.06
1	do. Austria-Hungary Germany Austria-Hungary	do	18,506	372L 00	33.77
0	Austria-Hungary	Aug. 27,1907	52,957	1,319.00 8,301.00	122.2
7	Germany	Aug. 29,1907	126,850 45,646	8,301.00 1,079.00	317.13 114.15
7	Germany		102,729	9 631 00	256. 82
5	do	dodo Sept. 16,1907 Sept. 17,1907	67,569	2,150.00 16,700.00 3,089.00	16R 09
3	Austria-Hungary	Sept. 16, 1907	1 638.616 1	16,700.00	1,596.54 203.50
	Norway	Sept. 17, 1907 Sept. 18, 1907	117,434 447,568		1,118.92
2	England	Sept. 21, 1907	44,489	1,822.00 6,978.00	7111.50
)	Germany	Sept. 21, 1907 Sept. 24, 1907	44,489 280,081	6, 978.00	650.20
	Austria-Hungary Germanydo Austria-Hungary Germany Norway England Germanydo	do Sept. 27, 1907	204,953	0.390.00	512.39
١	do	do . 27, 1907	11, 197 32, 690	310.00 1,369.00	27.96 81.77
I	Netherlands. Austria-Hungary. Norway. Germany.	Sept. 28, 1907 Oct. 1, 1907	259,447	6,299, 00	648.62
١	Norway	Oct. 1, 1907	512,029	14,600.00 10,611.00	1,280.07
l	Germany		398,490	10,611.00	996, 21 961, 16
١	Netherlands	Oct. 2. 1907	384, 465 34, 222	9, 112. 00 857. 00	85. 56
I	Norway. Netherlands. Russiado	Oct. 4, 1907	102,692	2.246.00	256, 73
١	do	Oct. 2, 1907 Oct. 4, 1907 Oct. 8, 1907 Oct. 9, 1907	75,435	1,815.00	188. 50
١	Norway do. Germany Norway	Oct. 9, 1907do Oct. 11, 1907 Oct. 16, 1907 Oct. 17, 1907 Oct. 18, 1907 Oct. 21, 1907 Oct. 22, 1907	340,340 942,585	8,568.00 22,296.00	850, 85 2, 856, 44
I	Germany	Oct. 11, 1907	288,065	8.042.00	720.10
١	Norway	Oct. 16, 1907	315,909	7,480.00 22,296.00	790.77
I	do. Austria-Hungary. Germany. do. Netherlands.	Oct. 17, 1907	948,657	22, 296. 00 21, 591. 00	2, 871. 66 2, 123. 90
١	Germany	Oct. 21, 1907	849,561 275,898	7, 909, 00	689. 78
Ì	do	Oct. 22, 1907	249, 924 206, 279	7, 909. 00 6, 929. 00 5, 715. 00	624.81
l		O-4 00 1007	206,279	5,715.00 5,974.00	515.70 603.78
l	Norway	Oct. 29, 1907 Oct. 30, 1907	201,510 432,083	5, 374.00 10, 118.00	1.080.21
١	Norwaydo. Germany Austria-Hungary		1,097,695	26, 381. 00 8, 297. 00	1,080.21 2,744.24
١	Germany	Nov. 2, 1907 Nov. 6, 1907 Nov. 7, 1907	336,586 1	8, 297. 00	841.47
I	Germany	Nov. 2, 1907	201,651	4,384.00 8,025.00	804. 13 730. 60
Į	Germanydo	Nov. 7, 1907	292,240 129,097	8,025.00 8,291.00 2,250.00	322.74
ľ	Russia	do	101.674 1	2,250.00	254. 19
	Germany	Nov. 9, 1907 Nov. 11, 1907	292,821 1,097,960	9,062.00 27,921.00	732.05 2,744.90
ı	Russia Germanydo Norway.	Nov. 12, 1907 Nov. 13, 1907 Nov. 13, 1907	52.344	1,209,00	130. 8
١	do	Nov. 12, 1907	52,344 308,480 367,009	8,208.00 8,943.00	771.20
l	Norway	Nov. 13, 1907	867,009	3,943.00 3,970.00	917. 82 391. 83
١	Austria-Hungary	Nov. 15, 1907 Nov. 19, 1907	156, 746 526, 253	12,810.00	1,815.6
ŀ	Germany Austria-Hungary Netherlands Norway		17,188	488.00	42.97
	Norway	Nov. 21, 1907 Nov. 25, 1907 Nov. 26, 1907	1 939.050 1	22,750.00	2,347.6
ı	Germany	Nov. 25, 1907	409, 392 68, 184	10,409.00 1,493.00	1,023.44
I	Germany	do	60, 164	1, 483, 00	150.41
١	Norway	do Nov. 27,1907 Nov. 29,1907	515,006	1, 483. 00 12, 125. 00 7, 984. 00	1, 287, 51
١	Germany	Nov. 29, 1907	290, 616	7,984.00	720.54
1	Germany Russia Germany Norway Germany Austria-Hungary Germany Russia	Dec. 2, 1907 Dec. 4, 1907	573, 568 329, 060	12, 915. 00 9, 009. 00	1, 433. 92 822. 68
1	Russia.	Dec. 9, 1907	68, 504 112, 875	1, 495. 00 2, 086. 00	171.2
١			112,875	2,096.00	188. 12
	Norway	Dec. 12, 1907	104, 130	2, 455. 00 15, 242. 00	260. 21 1, 452. 21
	Norway do. Germanydo.	Dec. 13, 1907 Dec. 16, 1907	580, 890 373, 606	10. 342. 00	984.00
	do	Dec. 16, 1907	373, 606 57, 381	1.483.00	143.4
;	RussiaNorway	2000 20, 2000	513, 564	13, 174.00	1, 283. 91

	Country of origin.	Date.	Quantity.	Appraised value.	Duty collected
Ī			Pounds.	•	
1	Germany	Dec. 30, 1907	39, 695	\$1, 140. 00	\$09. 2
ŀ	do	do	8,878	249: 00	22. 2
ŀ	do	Jan. 2,1908	288,066	8,070.00	720. 1
•	do	do	313, 036	9,314.00	782. 5
	8weden	Jan. 6,1908 Jan. 13,1908 Jan. 14,1908	157, 190	4,032.00	392.9
	Germany. Norway. Austria-Hungary. Germany.	Jan. 13, 1908	135, 320	4, 284. 00	338. 3
l	Norway	Jan. 14, 1906	122,948	8, 457. 00 4, 285. 00	307.3
	Company	do	198, 132 180, 334	5, 251. 00	495. 3 450. 8
		do	314, 517	7,891.00	786. 2
	Austria-Hungary	Jan. 15, 1908	54, 368	1,318.00	135. 9
	Germany	Jan. 16, 1908	187,641	5, 281. 00	469. 1
	Russia	Jan. 25, 1908	149, 120	. 351. 00	372. 8
	Austria-Hungary	Jan. 27, 1908	747,030	, 351. 00 17, 830. 00	1,867.5
	8weden	Jan. 30, 1908	340,099	9, 069. 00	850. 2
	Norway	Jan. 31, 1908	229,600	6, 149. 00	874.0
	Germany		817,586	10, 143. 00	793. 9
•	do	do	41,712	1, 186. 00	104. 2
ŀ	do	Feb. 8,1908	35,807	963.00	89. 5
ı	Norway	Feb. 17, 1908	179, 576	2,936.00	448. 9
١	Germany	do	50,028	1,519.00	125.0
١	Germany Russia Norway	Feb. 18, 1908	217, 444	5,023.00	543. 6
ı	Norway	do	146,365	3,667.00	365.9
l	Germany	do	407, 522 98, 690	10,915.00	1,018.8 246.7
	Austria-Hungary	Fab 24 1008	45,671	2, 515. 00 1, 405. 00	114.1
	Norway	Tab 28 1008	148, 595	3,813.00	371.
	do	do '	120,960	3, 202. 00	302. 4
١	Germany do. Norway. Germany	Mar. 2 1908	197,666	5, 476. 00	494. 1
ĺ.	do	Mar. 2,1908 Mar. 3,1908	295,397	8,020.00	738. 4
ľ	Norway	Mar. 5,1908	115,215	2,727.00	288.0
	Germany	Mar. 10,1908	200,402	5,399.00	501.0
	NOPUSY	MAP II BUR	144,088	3,831.00	360. 2
	do	do	22,595	515.00	56.4
	Russia	Mar. 14,1908	214,772	5,034.00	536. 9
ĺ	Germany	Mar. 23 1908	194,630	5,233.00	486. 8
ŀ	do Austria-Hungary	Mar. 25,1908 Mar. 26,1908	235,401 264,358	6,505.00 5,669.00	588. 5 660. 9
ŀ	Massar ungury	Mar. 20,1976	1,045,606	26,151.00	2,614.0
l	do do	Mar. 28,1908 Mar. 30,1908	129,269	3,388.00	323.1
•	Germany. Netherlands.	do.	57,010	1,334.00	142.
l	Netherlands	Apr. 2.1908	30,189	822.00	75. 4
l	Germany.	ldo	197.461	5,351,00	493. 6
l.	do	Apr. 8,1908	295,941	8, 163.00	739. 8
ľ	do Norway	TATAL ATTACO	1 92.303	2,554,00	230.7
ŀ	do	do	867,488 36,798 387,960	21,579.00	2,168.7
١	Austria-Hungary	Apr. 15,1908	36,798	920.00	92. (
ı	Germany	do	387,960	10,660.00	969.
١	Sweden	Apr. 18,1908 Apr. 20,1908 Apr. 21,1908 Apr. 23,1908	22,458	525.00	56.
١	Germany	Apr. 20,1908	61,631	1,569.00 10,754.00	154,0
ŀ	do	Apr. 21,1908	414,598	31.005.00	1,036. 3,101.
١	Δο		1,240,601 189,864	ar.uua.uu	474.
ŀ	doGermany	ATT 28 1000	58,614	4,097.00 1,758.00	146.
١	do	Apr. 29.1908	395,130	10,520.00	987.
ľ	Disseldorf, Germany	May 6.1908	55.232	1.856.00	138.
ı	Norwsy	do	55,232 925,224	22,065.00	2,313.
ı	Norway. Germany.	May 11,1908	292,094	8.134.00	791.
ı.	do	May 12.1908	196,862	5.399.00	492.
ľ	Austria-Hungary	May 15,1908	250,359	5,673,00	625.
١	Germany	May 19,1908	285,890	7,935.00	714.
Į.	. <u></u> do	May 20.1908	33,197	965.00	82.
i	Norway	May 21,1908	667,416 198,269	16,775.00	1,668.
ł	Germany	May 26,1908	198,269	5,368.00	495.
ı	Total	1	66,142,478	1,653,121.00	167 100
			1 18), 142, 4/8	: 1.055.1Z1.(II)	1111/ . 1115.

Imports of filter masse or filter stock, under paragraph 395, tariff of 1897, at the district and port of New York, from January 1, 1907, to June 1, 1908.

	Country of origin.	Date.	Quantity.	Appraised value.	Duty collected
			Pounds.		
•	Germany	Jan. 7, 1907	2,496	<b>\$294.00</b>	\$81.54
5	Mannheim, Germany	Jan. 9, 1907	9, 436	889.00	274.8
7	Germany	Jan. 18, 1907	1,102	169.00	41.8
2	do	Jan. 26, 1907 Mar. 6, 1907	2,204	174.00	59. 10
	do	Mar. 6,1907	13,045	1, 169. 00	371.00
	do	Mar. 9, 1907	4,960	296.00	133. 90
?	dodo	Mar. 11,1907	4, 651 463	432.00 41.00	134. 57 13. 10
	do	Mar. 18, 1907	1,102	150.00	39.00
	do	Mar. 26, 1907	1,102	169.00	41.8
	do	Apr. 8, 1907	2,205	345.00	84.8
	do	Apr. 22, 1907	2,646	189.00	68.0
	do	Apr. 24, 1907	2, 205	234.00	68. 1
1	do	May 13, 1907	3,516	298.00	96.7
	do	do	551	44.00	14.8
ľ	do	May 20, 1907	749	93. 00	25. 1
ľ	do	May 22, 1907	14,890	1, 291. 00	417. 0
	do	June 7, 1907	2,701	284.00	83. 1
T.	do	June 10, 1907	6,651	581.00	186. 3
	do	June 13, 1907	1,102	150.00	39.0
	do	June 20, 1907	233	29.00	7.7
	do	June 24, 1907	496	67.00	14.4
	do	June 28, 1907	9,921	922.00	287. 1
	do	July 8, 1907	2, 205	326, 00	81.8
1	do	July 15, 1907	1.543	175.00	49. 4
1	do	do	6,739	799.00	220.9
	do	July 25, 1907	5,511	493.00	156.6
	do	Aug. 6, 1907	2, 205	322.00	81.3
	do	Aug. 8, 1907	3, 328	393.00	108. 4
1	do	Aug. 9, 1907	5,071	511. <b>00</b>	152.7
	do	Aug. 19,1907	1,920	237.00	64.3
	do	Aug. 31, 1907	2, 205	326.00	81. 9
	do	Sept. 12, 1907	3,748	854.00	109. 3
1	do	Sept. 26, 1907	3,307	496.00	122. 5
ŀ	do	Oct. 5, 1907	441	52.00	14. 4
	do	Oct. 14, 1907	1,106	150.00	39.0
	do	Oct. 22, 1907	9,572	903.00 827.00	279.0
1	do	Oct. 25, 1907	3,858		106. 9
	dodo	Oct. 28, 1907	2,204	192.00	61. 8
ŀ	do	Nov. 11, 1907 Nov. 18, 1907	3, 527 992	850. 00 90. 00	105. 4 28. 2
ł	do	Dec. 9, 1907	1.499	116.00	39. 8
1	do	Dec. 24, 1907	9,634	909.00	280.8
ı	do	Jan. 6, 1908	5, 372	463.00	155. 4
	do	Jan. 22, 1908	1,102	153.00	39. 4
	do	Feb. 17, 1908	441	52.00	7.8
	do	Feb. 24, 1908	3,031	254.00	83. 5
١	do	Feb. 26, 1908	7 079	645.00	216. 3
1	do	Mar. 2, 1908	3,788	328.00	106. 0
	do	Mar. 5, 1908	1,323	94.00	33. 9
١	do	Mar. 13, 1908	2,293	239.00	70. 2
١	do	do	3,638	587.00	135. 1
	do	Mar. 24, 1908	224	29.00	7.7
	do	Apr. 6, 1908	112	18.00	4.8
	do	Apr. 11, 1908	8,621	639.00	224. 8
	do	Apr. 16, 1908	2,646	264.00	79. 2
	do	Apr. 25, 1908	441	52.00	14.4
	do	Apr. 27, 1908	2,998	233.00	79. 9
1	do	do	4, 372	<b>517.00</b>	143.
	do	May 6, 1908	7, 352	<b>68</b> 0. <b>00</b>	212.
!	do	May 12, 1908	4, 511	442.00	133. 9
0 I	do	May 28, 1908	7,834	581.00	204.6
٠,					
١	Total		227, 118	22, 141. 00	6, 721.

Imports of printing paper, under paragraph 396, tariff of 1897, at the district and port of New York, from January 1, 1907, to June 1, 1908.

Entry No.	Country of origin.	Date.	Quantity.	Appraised value.	Duty collected.
			Pounds.		
316	Austria-Hungary	Jan. 2,1907 Jan. 4,1907	134, 350 1, 260	\$4,819.00	\$806, 10
3399	Netherlands	Jan. 4, 1907	1,260	261.00	39. 15
4748 7770	Germany Japan Germany	Jan. 7,1907 Jan. 9,1907	10, 468 9, 238	1,574.00 557.00	236, 10 83, 55
7895	Germany	do	794	166.00	24.90
8569	l do	Ten 10 1007	2,302	258.00	24. 90 38. 70
9175	<u>Italy</u>	Jan. 11,1907	19 307	1,773.00	265.95
10420 10928	Italy Canada England	Jan. 14, 1907 Jan. 14, 1907 Jan. 15, 1907	31,900 2,345 2,132	479.00 290.00	95. 70
11920	do England	Tan 15 1907	2,090	611.00	43. 50 91. 65
12159	00. Japan. Netherlands Japan. Austris-Hungary Germany.	do	270	79.00	11.85
12482	Netherlands	do	960	171.00	25. 65
12839	Japan	do	195	62.00	9.30
12932 13595	Austria-Hungary	Jan. 16, 1907	64,881	2,631.00	469. 10
15500	Tonon	Jan. 18, 1907	6, 298 405	1, 128. 00 69. 00	169. 20 10. 35
17918 19768	Austria-Hungary Germany Japan England Japan Germany France Germany Scotland	Jan. 21, 1907	2, 152	617.00	92.55
19768	Japan	Jan. 21,1907 Jan. 23,1907	2, 152 1, 999 3, 752	617. 00 412. 00	92. 55 61. 80
21000	Germany	Jan. 23, 1907 Jan. 24, 1907 Jan. 25, 1907 do	3,752	215.00	32.25
22011	France	Jan. 25, 1907	. a.auu l	231.00	34.66
22103 22967	Germany	Ton 26 1007	28, 855 1, 400	2, 700. 00 355. 00	405.00 53.25
23143	Germany	do 100	5,038	412.00	61. 80
26104	Germany do France Germany.	Jan. 29, 1907	8,061	382.00	64. 41
28025	France	Jan. 31, 1907	15, 424	1.074.00	161. 10
29355	Germany		14,912	1, 132, 00	169.80
40398	do. do. Austris-Hungary England Austris-Hungary Germany do. do. Austris-Hungary	Feb. 15, 1907	7, 482	1,097.00	164.55
41841 41998	Anatria_Wingapy	Feb. 16, 1907do Feb. 18, 1907do Feb. 19, 1907 Feb. 20, 1907 Feb. 21, 1907 Feb. 23, 1907	27,071 276	1,209.00 113.00	181. 35 16. 95
43466	England	Feb 18 1907	14,318	1,326.00	198. 40
43929	Austria-Hungary	do	1,290	169.00	25. 35
44068	Germany	Feb. 19, 1907	8,337	357.00	53.55
46833	do	Feb. 20, 1907	990	187.00	28.05
46558 47134	A metala Timanana	Feb. 21,1907	81,299	2,719.00 745.00	407. 85 136. 17
43065	Germany	feb. 23, 1907	19,327 22,724	2,234.00	335. 10
40395	England	Feb. 25, 1907	16, 105	713.00	128.84
51925	Germany England. Netherlands	Feb. 25, 1907 Feb. 27, 1907	1,056	154.00	23. 10
52172		do	6, 147	938.00	140.70
52956 52958	Japan France Scotland	do Feb. 28, 1907	3, 136	610.00	91. 50
55118	Scotland	Mor 4 1907	1, 975 2, 600 2, 124	288.00 121.00	43, 20 18, 15
56584	LANAAN	Mor K 10077	2,124	108.00	16. 20
58274	France	Mar. 6, 1907	627	46, 00	6.90
61182 62265	France. Germanydo. England.	Mar. 9,1907 Mar. 11,1907 Mar. 12,1907	2, 597 15, 253	217. 00 2, 125. 00	32. 55 318. 75
62266 63757	Fooland	Mar. 11,1907	15, 253	2, 125. 00 549. 00	818.75 82.35
64210	dodo	Mar. 12, 1907 do Mar. 13, 1907	3, 895 3, 280	878. 00	131.70
66303	Canada	Mar. 13, 1907	33, 597	564.00	100.79
65304	do	Mar. 14, 1907	33, 597 48, 026	792.00	144.08
65443	40	Mer 14 1007	77, 959	1, 286. 00	233.88
65968 65964 65966	do	do	50, 560	834.00	151.68
45945	do	do	98, 319 124, 956	1, 622. 00 2, 062. 00	294. 96 374. 87
66788			17, 316	1.504.00	225.60
67559	Germany Canada Japan do Germany France Italy	do	77,119	1, 272, 00	231.36
67699 67700	Japan	Mar. 16, 1907	1,010	323.00	48. 45 12. 60
67700 68256	Germany	Mon 19 1007	295	84. 00 1, 522. 00	12.60 228.30
69958	France	mar. 10, 1907	5, 429 22, 638	1,667.00	250.05
69957	Italy	do	242	54.00	1 8.10
70085			380	54. 00 35. 00	5. 25
70396	Germany	do	23,615	<b>2,099</b> .00	501. 25
71176 71285	Austria-Hungary	Mar. 19, 1907	283	38.00 1,950.00	5. 70 292, 50
71286	Germany Austria-Hungary England do	do	25, 410 5, 615	416.00	62. 40
71463	Сапада	do	264,620	4, 366, 00	793. 86
72000	Germany	do	942	178.00	26.70
72225	Netherlands	do	3, 120	292.00 1,223.00	43.80
78646 75275	Canada	Mar. 21, 1907	15, 257 41, 004	1, 223. 00 679. 00	183. 45 123. 47
75276	do	do	74, 350	1, 224 00	222. 49
75428	Japan	do	1,310	1, 224. 00 261. 00	39, 15
75428 75 <b>94</b> 7	Canada	do	1,310 48,220	796.00	39. 15 144. 66
77863	France	Mar. 25, 1907	469	84.00	12.60
79KKN	do. Canada. Germany. Netherlands Germany. Canada.  do. Japan. Canada. France. Japan. do. Japan.	Mar. 26, 1907	2, 228 658	486.00 194.00	72.90 29.10
78652 78656 79419	FranceGermany	dodo	22,068	8, 182 00	477. 30
70410	Germany	do	58	4.00	.75

Imports of printing paper, under paragraph 396, tariff of 1897, at the district and port of New York, from January 1, 1907, to June 1, 1908—Continued.

Entry No.	Country of origin.	Date.	Quantity.	Appraised value.	Duty collected.
			Pounds.		
81219 82421	France China	Mar. 28, 1907 Mar. 29, 1907	2,661 1,200	\$413.00 56.00	\$61.95
85759	Tenen	Apr. 2, 1907	260	77. 00	8. 40 11. 55
87075	Francedo	Apr. 3, 1907	7.894	546 00 2,948 00	81.90
87439	do	do	15, 292	2,948 00	442. 20 35. 79
87777 88839	Belgium	Apr. 4, 1907 Apr. 5, 1907	5, 091 4, 674	209.00 1,344.00	35. 79 201. 60
94502	England Scotland Germany	Apr. 11, 1907	272	1, 341. 00 \$2. 00	4.80
96230	Germany	Apr. 13, 1907 Apr. 15, 1907	17, 270 104, 020	2, 247, 00	337, 05
97221	do	Apr. 15, 1907	104, 020	2,670 00	520. 10
98273 86317	France do Austria-Hungary Germany	do	17,666 1,368	1,283.00 245.00	192. 45 36. 75
104687	Austria-Hungary	Apr. 16, 1907 Apr. 22, 1907 Apr. 24, 1907	409	38.00	5.70
106135	Germany	Apr. 24, 1907	35, 822	1,724.00	258.60
106580 107034	do	l do	12,024	548.00	96. 19
107034	do	Apr. 25, 1907 do	10, 184 1, 321	2, 011. 00 214. 00	301.65 32.10
109164	do			1, 388. 00	206.20
111884	do	do Apr. 29,1907 May 1,1907	4, 462	675.00	<b>101. 25</b>
113626	do	May 1,1907	8,314 [	696.00	104. 25
115210 116080	do	May 2,1907 May 3,1907	8, 541 2, 340	1,385.00	207.75 29.25
119837	Scotland	May 7,1907	19,898	195.00 3,086.00	462. 90
120288	dodododododododo.	do	9,550	1,075.00	161.25
123956	France.	do May 10,1907 May 13,1907 May 14,1907	5, 280	370.00	<b>55. 50</b>
125987 125933	Anatria_Hungary	May 13, 1907	18,801 273	1, <b>5</b> 16. 00 52. 00	227.40 7.80
127252	England Germany 	May 14, 1907 do. May 22, 1907 do. May 23, 1907 do. May 27, 1907 do. May 31, 1907 do. June 3, 1907 June 4, 1907	5,945	1.704.00	255. 60
133478	Germany	May 22, 1907	6, 504	066.00	99. 90
133566 135266	do	do	9	1.00	. 15
136672	Germany	May 23, 1907	6, 947 9, 899	288.00 1,054.00	55. 58 158. 10
137860	France	May 27, 1907	16, 298	1, 138. 00	170.70
139055	Germany France Scotland Austria-Hungary	do	10, 518	1, 635. 00 864. 00	245. 25
142625	Austria-Hungary	May 31, 1907	6.351 [	864.00	129.60
142706 145682	Germany Scotland	Tune 8 1007	8,244 21,875	1,044.00	156, <b>6</b> 0 512, 10
145724	Franca	June 4, 1907	16, 911	3, 414. 00 1, 183. 00 4, 295. 00	177.45
148421	Austria-Hungary	June 7, 1907	16, 911 113, 911	4, 295. 00	781.20
148423			8,571	204, 00	30.60
152120 157412	dodo. Austria-Hungary Germany	June 11, 1907 June 17, 1907	27, 114 1, 210	2, 428. 00 176. 00	364.20
157827	Germany.	June 18, 1907	13, 145	1,648.00	26. 40 247. 20
159303	do Scotland Germany England	June 19, 1907	42	4.00	.60
160436 163963	Scotland	June 20, 1907	8,960	414.00	71.68
165439	England	June 24, 1907 June 25, 1907	1,830	194. 00 218. 00	29. 10 38. 49
166156	Germany. Canada. do. Germany.	June 26, 1907	4,811 17,715	738.00	110.70
166341	Canada	do June 28, 1907	3,612	73.00	14.45
168722 168968	do	June 28, 1907	4,600	99.00	18. 40
174100	France	July 5, 1907	8, 012   2, 135	823. 00 1, 096. 00	123. 45 164. 40
175188	France. England. Germany.	July 8, 1907	16, 526	1,963.00	294. 45
178497	England	July 9, 1907	9,557	707.00	106.05
178651 182938	Germanydo.	July 15, 1907	49, 149	2,270.00	<b>393.</b> 19 82. <b>2</b> 0
183764	Canada	100 10' TAOL	8, 585 3, 800	548.00 82.00	82. 20 15. 20
184119	Canada France England	July 16, 1907 July 19, 1907 July 22, 1907	6.017	718.00	106. 95
187341	England	July 19, 1907	4.285	1, 228.00	184. 20
188446	Germany	July 22, 1907	10.907 1	1,368.00	205. 20
191119 194295	Germany	July 25, 1907 July 26, 1907	9, 900 7, 896	452. 00 688. 00	79. 20 103. 20
194998	Engiand Germany England Germany	do	580	55.00	8.25
198025			10,098	144.00	21.60
201040	do	Aug. 3, 1907	8,878	499.00	74. 85
201042 201372	dodo	Ang 5 1907	20,707 25,110	2,325.00 905.00	348. 75 150. 66
204498	Japan	Aug. 6,1907	1.540	390.00 l	58, 50
207214	Austria-Hungary Belgium Germany Austria-Hungary	Aug. 5,1907 Aug. 6,1907 Aug. 9,1907	29,687	1,229.UU	237. 50
207274	Germany	do	11,757	1,607.00	241.05
208821 209284			2,498 5,177	125.00 364.00	19. 98 54. 60
211891	Canada	Aug. 13,1907	4,988	101.00	54. 60 19. 95
212899	England	Aug. 13,1907 Aug. 15,1907 do	2,551	128.00	19, 20
213628	Canada England France Germany	do	12,342	719.00	107. 85
214802 217800	dodo.	Aug. 17,1907	23,573 1,318	8, 137. 00 248. 00	470. 10 37. <b>20</b>
221034	Germanydo.	Aug. 23,1907	9,148	979.00	146.85
			١ ٠,٠٠٠	315.00 (	

Imports of printing paper, under paragraph 396, tariff of 1897, at the district and port of New York, from January 1, 1907, to June 1, 1908—Continued.

	Country of origin.	Date.	Quantity.	Appraised value.	Duty collected
Ī			Pounds.		
1	Canada do do England Austria-Hungary	Aug. 26,1907	4,600	<b>4 \$99.</b> 00	b \$29. 2
-	do	do	6,118	119.00	24. 47
	Austria II unmanu	Sept. 4,1907 do	1,385 55,123	130.00 2,611.00	19. 50 830. 94
1		dodo	9,435	418.00	75. 4
1	Germany Scotland Austria-Hungary	Sept. 5, 1907	8,124	469.00	70.3
1	Scotland	Sept. 16,1907	1,659	252.00	37. 80
1	Austria-Hungary	Sept. 17,1907	27,448	1,825.00	273. 71 278. 70
	Germany	Sept. 18,1907	20,514 15,501	1,858.00 1,389.00	278. 70 208. 34
1	Germany	Sept. 19,1907 do	18,746	2,139.00	320. 8
I.	France. Germany	do Sept. 20,1907	18,746 3,771	1,420.00	213.0
1	England	Sept. 20, 1907	1 600 1	88.00	13. 20
١	Canada	Sept. 21,1907	4,600	99.00	18.40
١	France Germany do.	Sept. 21,1907 Sept. 24,1907 Sept. 25,1907 Sept. 26,1907	11,935 1,107	2,096.00 151.00	314. 46 22. 64
L	do.	Sept. 26, 1907	1 11.2462.1	1.771.00	265. 6
I	do		8,747	1,025.00	153. 7
١	do	Oct. 8,1907 Oct. 9,1907 Oct. 10,1907	1 7.831 1	370.00	62.6
١	do	Oct. 9,1907	20,837	1,956.00	293. 4
ı	Japan France	Oct. 10,1907 Oct. 15,1907	1,106 14,337	81.00 1,854.00	12. 1 278. 1
ł	do	Oct. 17,1907	5,698	402.00	60.3
١	do	do	7,098	618.00	92.7
١	Germany Austria-Hungary	Oct. 19,1907 Oct. 21,1907 Oct. 25,1907	9,713	287. 00	43.0
١	Austria-Hungary	Oct. 21,1907	34, 251	1,447.00 1,851.00	274.0
l	Germanydo	do	18,286 9,236	. 212.00	277.6 31.8
I	Italy	Oct. 28, 1907	1,834	227.00	34.0
١	Italy France Belgium	Oct. 28, 1907 Oct. 31, 1907	11.746	823.00	123. 4
Ì	Belgium	do	11,746 39,801	1,663.00	397.9
I	Germany Austria-Hungary	do	27,420	1,067.00	181.3
ı	Austria-Hungary	Nov. 2,1907	26, 145 4, 709	1,212.00 619.00	217.9
١	Germanydo.	Nov. 6.1907	9,913	1,340.00	92.8 201.0
١	do	Nov. 7, 1907	5,869	610.00	91. 5
١	do	Nov. 2,1907 Nov. 4,1907 Nov. 6,1907 Nov. 7,1907	19, 189	707.00	115. 1
١	France Germany 	do		763.00	114. 4
١	Germany	Nov. 11, 1907	19,976 1,041	2, 484. 00 88. 00	372.6
١	Scotland	do. 11, 1907	14,924	2,270 00	13. 2 340. 5
١	France	Nov. 12, 1907 Nov. 18, 1907 Nov. 16, 1907	4,539	873.00	130.9
ı	France. Austria-Hungarydo.	Nov. 18, 1907	63,118	3,543.00	531. 4
ı	do	do	3,988	326.00	48.9
1	Germany	Nov. 25, 1907	15,523 4,310	1,881.00 375.00	282. 1 56. 2
l	do	l	992	220.00	33.0
ı	do	Nov. 26, 1907 Nov. 29, 1907	1,933	174.00	26. 1
١	do	Nov. 29, 1907	4, 429	386.00	57.9
ı	A vetrie Wyngory	Dec. 3,1907 Dec. 6,1907	1,825 64,420	530, 00 2, 933, 00	79. 5 502. 9
١	Germany	do	10,978	1,447.00	227. 0
١	Japan Austria-Hungary Germany. do	Dec. 7,1907	14,578	838. 00	125. 7
I	100	1 Dec. 13.1907	16,894	2,750.00	412.
	England	Dec. 14, 1907	. 16,777 5,447	790.00 380.00	118. 5 57. 0
	England	do 11, 1907	3 430	537.00	80. 8
١	France. England Germany	Dec. 16, 1907	3, 439 12, 955	1.307.00	196.
١	Scotland England	ldo	65,258	3,292.00	493. 8
	England	ldo	. 589	169.00	25. 3
1	Germany Austria-Hungary	Dec. 21,1907	28,687	<b>8,</b> 122. 00 <b>6</b> 60. 00	468. 3 99. 0
	Germany	Dec. 24, 1907	7,875 2,633	399.00	59.8
ľ	England	do	1 10.000	773.00	115.
	Germany	Dec. 24, 1907 Dec. 30, 1907 Jan. 2, 1908	10,972	1,025 00	153.
!	Austria-Hungary Germany England Germany France Germany	Jan. 2,1908	17,057 939	8,281 00	492. 1
		do	1 4 555	144.00 299.00	21. 0 44. 1
	Japan	Jan. 3, 1908 Jan. 7, 1908	290	85. 00	12.
	Japan. Germanydo	Jan. 7, 1908	50, 130	1.284.00	863
	do			740.00	111.0
3	Kronos	Jan. 10, 1908 Jan. 15, 1908	11, 358	869.00	130.
7	Netherlands. England. France	Jan. 15, 1908 Jan. 16, 1908	15.096	790.00 126.00	117.0
5	France	Jan. 16, 1908	2, 108 8, 369	126.00 296.00	18.1
•	Canada	Jan. 23, 1908 Jan. 24, 1908	34,977	846.00	139.
5			4,396	300.00	

Appraiser increases value \$19.90.

Additional duty under section 32, \$10.89.

Imports of printing paper, under paragraph 396, tariff of 1897, at the district and port of New York, from January 1, 1907, to June 1, 1908—Continued.

No.	Country of origin.	Date.	Quantity.	Appraised value.	Duty collected
			Pounds.		
0068	Austria-Hungary	Jan. 27, 1908	74,701	<b>\$2,790.00</b>	\$448.2
1066 1916	Germany do England	do	8,735 7,740	214.00	32. 1
3431	Freind	QO	7,740	501.00 102.00	75. 1
3468	do	Jan. 29, 1906	2,160 2,690	153.00	17. 2 22. 9
4433	Germany	Jan 20 1009	19, 985	1,886 00	282.0
8388	Germany. England	Feb. 4, 1908	1,519	78.00	11.7
1315	Italy Germany England Germany	Feb. 8,1908	2,856	316.00	47.4
3345	Germany	Feb. 10, 1908	1,573	652.00	97.8
3814	England	Feb. 11, 1908	8,954	<b>2,</b> 460. 00	<b>369</b> . 0
4430	Germany	Feb. 13, 1908	2,384	454.00	68. 1
4893 4894	Italy	qo	18,214	1,590.00	238. 5
6144	Italy France Germany  do  Netherlands England Netherlands Japan	Pob 14 1000	19,974 20,146	1, 392. 00 2, 006. 00	208.8
7576	do	Feb. 17 1908	24, 912	2,000.00 1,398.00	300. 9 209. 7
0192	Netherlands	Fab 18 1908	46, 294	2, 442. 00	336.3
4967	England	Feb. 25, 1908	6,032	285 00	48. 2
8233	Netherlands	Feb. 29, 1908	9, 562	494,00	74.1
1772	Japan	Mar. 4, 1908	335	120.00	18.0
1773	do	do	88	15.00	2.2
2053	France Austria-Hungary	do	6,068	425.00	63. 7
2321	Austria-Hungary	do	63, 395	<b>2, 240</b> . 00	280.2
6073	England Germany do England Austria-Hungary	Mar. 9, 1908	2, 125	331.00	49. 6
7708	Germany	Mar. 11,1908	2,277	208.00	31. 2
0418 2349	Profess	Mar 14, 1908	8,975	1,563 60	234 4
1580	Anetrio-Hungary	Mar 16 1008	3,895 4,115	599.00 557.00	88. 3 83. 5
8323	France	Mar. 25,1908	6,824	662.00	99. 3
8324	France. Japan	do	505	122.00	18. 2
0993			8.886	984.00	147.
3543	do. England	Apr. 1,1908	1,010	211.00	81. 6
4112	England	Apr. 2,1908	10,393	1,530.00	229. 8
4363	(Jermany	ďΛ	428	86.00	12.5
8471	doSootland	Apr. 6,1908	46,129	2,116.00	369. (
8200			5,140	795.00	119.
8608 4683	Austria-Hungary	Apr. 8,1908	15,288	527.00	91. 8
8285	Notherlands	Apr. 10,1908	3,170	316.00	47.
7594	Austria-Hungary Germany Netherlands Germanydo France Netherlands Germany do do do	Apr. 17,1906	22,568 243	1,167.00 22.00	175. (
9003	do	Apr. 20,1308	2,488	242.00	3. 3 35. 3
9795	France	Apr. 22,1908	4,455	308.00	46.2
0506	Netherlands	do	10,145	485.00	81. 1
2952	Germany	Apr. 27,1908	15,710	1,392.00	208.8
3830	do	do	15,710 27,597	634.00	110.2
4214	Scotland	Apr. 28,1908	3,570	175.00	26.2
5144	Italy	Apr. 29,1908	714	117. 00	17. 8
6824	Germany	May 1,1908	46,563	2, 136. 00	357. 2
7306 8166	Canada. Scotland. France. Germany.	May 2,1908	38,336	728.00	118.0
9337	France	May 4,1908	6,485	294.00	51. 8
9604	Germany	MERA 0, 1909	3,234 162	228. 00 16. 00	34.2
0074	Austria-Hungary	do	37,985	1,301.00	2. 4 227. 9
2464			4 631	402.00	60.3
2759	England	do	4,631 7,918	1,164.00	174.6
3290	England Germany do do England	do	3,600	198.00	29.
4145	[do	May 12,1908	1,150	97.00	14. 8
5850	do	May 14,1908	4,491	300.00	45.0
6323		May 15,1908	165	13.00	1. 9
8099 8606	Austria-Hungary	May 18,1908	4,405	549.00	82. 3
19050	EnglandFrance	May 18,1908 May 19,1908 do	1,588	77.00	11. 4
9342	England	May 20 1000	6,574	464. 00 626. 00	69. (
1333	do	May 20,1500	11,879 3,001	155.00	93. 1 23. 2
1583	Germany	do	13,338	1,853.00	277.5
5542	England	May 20,1908 May 22,1908dodo May 28,1908	803	66.00	9.1
	Total		4,371,168	272,021.00	42.954.0

No pulp woods were imported at New York.

### PORT OF BRIDGEPORT, CONN.

Importations of mechanically ground wood pulp in the district of Bridgeport, Conn., from January 1, 1907, to June 1, 1908, from St. George, New Brunswick.

Date.	Quantity.	Value.	Duty.
May 3 1907.  June 3 4 15 15 13 13 20 23 26	819,000 688,500 360,000 679,050 693,000 388,980 647,100 688,500	\$4,706.00 5,686.00 4,781.00 2,600.00 4,715.00 4,812.00 2,701.00 4,493.00 4,781.00 5,812.00	\$564. 75 682. 50 573. 75 300. 00 565. 88 577. 50 324. 15 539. 25 573. 75
Aug. 5	712,000 646,650	4, 950. 00 4, 490. 00 4, 443. 00 58, 870. 00	593. 33 538. 88 533. 25 7, 064. 49
Apr. 8. 1908.  May 8. 8. 11. 22.	515, 200. 591, 560 361, 560	3,514.00 3,578.00 4,108.00 2,511.00 3,833.00	421. 67 429. 33 492. 97 301. 30 460. 00

No filter masse, printing paper, or pulp wood is imported in this district.

# PORT OF NEW LONDON, CONN.

Importations of mechanically ground wood pulp entered at the port of New London, Conn., from Liverpool, Nova Scotia, under paragraph 393 during the period from January 1, 1907, to June 1, 1908.

Date of entry.	Quantity.	Value.	Entry duty.	Liquidated duty.	Excess.	Refund.
1907. April 11	Pounds. 229,752	\$1,204,10	\$191, 46	\$174.68	<b>\$</b> 16. 78	
May 3	222,168	1, 168. 95	185. 14	158. 91	26. 23	
May 13	236,232	1,240.70	196, 86	190. 49	6.37	
June 3	233,000	1, 223. 25	194. 17	177. 56	16. 61	. <b></b> .
July 11	253, 332	1, 330, 00	211. 11	200.14	10.97	
July 30	253.930	1, 333, 15	211.61	258. 90		\$47. 29
August 19	247.457	1, 301, 60	206. 21	188.90	17. 31	
September 24	250,604	1, 315, 60	208, 84	194.19	14.64	
October 7	227,044	1, 191. 80	189. 20	189. 20		
Total	2, 153, 519	11, 309. 15	1,794.60	1,732.97	108. 91	47. 29

No importations during period from January 1, 1907, to June 1, 1908, of filter masse or filter stock under paragraph 395, nor printing paper under paragraph 396, nor pulp woods under paragraph 699 of the tariff act of 1897.

# PORT OF BOSTON, MASS.

Statement showing importations of wood pulp, filter masse, printing paper, and pulp woods at the port of Boston for the period from January 1, 1907, to June 1, 1908.

### MECHANICALLY GROUND WOOD PULP.

Country of origin.	Date.	Quantity.	Value.	Duty collected.
Nova Scotia	Mar. 26,1907	Pounds. 181, 130	\$1,095.00	\$150.9
CHEMICAL WOOD PU	LP, UNBLEA	CHED.		
		Pounds.		
Russia Sweden	Jan. 11,1907	443, 160 102, 790	\$7,880.00	\$728.6
Sweden Norway	Jan. 21, 1907	213, 988	1,916.00 4,234.00	171. 3 356. 6
NOFW89	do	32, 439	665.00	54.0
Russia	do	103, 100	1,766.00 6,249.00	171.8
Do	do	366,686	6, 249. 00	611.1
Germany	<b></b>	467, 394	9, 526.00	778.9
Promis	Jan. 23, 1907	412, 342 48, 982	7, 903, 00	687.2
Sweden Russia Germany Sweden	Jan. 30, 1907	48,982	958.00	81.6
Russia	go	84,669	1,502.00	141. 1 228. 4
Germany	Ton 21 1007	137, 063 989, 980	3, 151. 00 16, 433. 00	1,649.4
sweden	Feb. 13, 1907	184, 176	3, 181. 00	306.9
Germany	do	162, 339	3.009.00	270.5
Do To	do	164, 706	3, 363.00	274.5
Sweden	Feb. 18, 1907	53,590	1,095.00	89. 3
Sweden Germany	do	110,602	2,091.00	184.3
3weden	Feb. 25, 1907	148, 267	2,769.00 2,526 00	247.1
Germany	Mar. 6, 1907 Mar. 19, 1907	98, 381	2,520 00 507.00	163.9
Russia Sweden	Mar. 19, 1907	33, 632	2, 190. 00	56.0 175.0
GermanyGermany	do	105, 056 215, 685	4, 151. 00	359.4
Sweden	do	276	6 00	4
Do	Mar. 22, 1907	45, 023	852, 00	75.0
Do	Mar. 29, 1907	450, 695	8,005.00	787.8
Do	Apr. 23, 1907	32, 381 199, 608	611.00	53. 9
Russia	do	199,608	3, 356. 00	332.6
Germany	do	234, 383	4, 512.00	390.6
Russia	A 70 24 1007	152, 516 222, 948	2,604.00	254. 1 371. 5
Russia England Norway Sweden	Apr. 24, 1907 May 1, 1907	100 535	4,068.00 2,165.00 2,792.00	182.5
Sweden	do	109, 535 170, 363	2, 792, 00	283.9
England	May 2, 1907	218, 860	4,043.00	364.7
Germany	Mos # 1007	51,086	1, 112.00	85. 1
Germany Bweden Germany Sweden	May 8, 1907	51, 307 88, 290	973.00	85. 5
Russia	do	88, 290	1,503.00 6,964.00	147. 1 604. 3
Germany	Mar 0 1007	362, 595 109, 073	2,245.00	181.7
		32 385	610.00	53.9
Russia	May 21,1907	32,385 156,243	2,646.00	260.4
Germany	do	858,585 32,230	6,744.00	597.6 53.7
Russia Germany Sweden	do	32,230	418.00	53.7
Norway	<u></u>	32,142	557.00	53. 5
sweden. Norway. Bweden.	May 25,1907	107,514	2,028.00	179.1
		444,695	7,568.00	741.1 54.4
England. Germany Do	. ALBY 31,190/	32,667 67,730	610.00 1,277.00	112.8
Do	June 10 1907	31,382	620.00	52.3
Norway	do	75,563	1,503.00	125.9
Norway. Do. Sweden. Do. Germany.	June 24, 1907	53,755	920.00	89.5
Bweden	. do	52,490	973.00	87.4
_ Do	.,do	66,110	1,314.00	110.1
Germany	do	767,438	13,843.00	1,279.0
Do	June 20, 1907	423,701 159,365	7,585.00	706, 1 265, 6
Norway	do.	53,435	2,837.00 1,341.00	123.5
Germany	July 8, 1907	106,582	1,810.00	177.6
Do	do	42,463	701.00	70.7
Do	July 22, 1907	124.679	2,628.00	207.8
Sweden	do	43 817	826.00	73.0
Russia	do	142,966 637,314 32,340	2,340.00 10,475.00	238. 2
Germany Do	do	037,314	10, 475.00 493.00	1,082.1 53.9
Bweden		82,340 66,690	1,314.00	111.1
Do	Tuly 31 1007	107,196	1,806.00	178.6
Do	do	33,600	607.00	56.0
W	do	66,400	1,103.00	112.0

Statement showing importations of wood pulp, filter masse, printing paper, and pulp woods at the port of Boston for the period from January 1, 1907, to June 1, 1908—Continued.

## CHEMICAL WOOD PULP, UNBLEACHED-Continued.

Country of origin.	Date.	Quantity.	Value.	Duty collected.
S	4 0.1000	Pounds.		
Sweden	Aug. 3,1907	113,200 178,045	\$2,129.00	8186.67
Germany	do	1,023,111	3,073.00 22,508.00 3,212.00 1,018.00	296.74 1,705.19
Do	do	155,444	3,212.00	259.07
8weden	Aug. 10, 1907	155,444 53,547	1,018.00	89. 25
		141,701	2 412 (1)	236. 17
Norway	do	33,377 160,273	2 793 00	55.63 267.12
Germany	do	574.535	518.00 2,783.00 9,857.00	957.56
Sweden	Aug. 12,1907	65,880	1,314.00	109.80
Norway	Aug. 13, 1907	113,234	1,877.00	188. 72
Sweden	Aug. 13, 1907do Aug. 26, 1907do Aug. 29, 1907do dodo	107,790 335,286	2,038.00	179.65 558.81
Germany Norway	Aug. 20, 1907	32,371	5,659.00 651.00	53.96
Sweden	Aug. 29,1907	108,624	1,806 00	181.04
Norway	do	32, 433	551.00	54.05
Sweden	do	88,834	1,787.00	148.06
Do		43,521 191,780	743.00 8,154.00	73.04 319.63
Sweden	gohr. 4,1801	42,454	743.00	70.76
Do	Sept. 14, 1907	150,242	2.597.00	250.40
Germany	do . <b></b> .	111.269	2, 476, 00	196 45
Do	1 40	139, 347 66, 720	2, 184. 00 1, 314. 00	232. 25 111. 20
Sweden		161,000	1,314.00	268. 41
Germany	Sept. 18, 1907	161,080 49,403	2,783.00 1,119.00	82.34
Germany. Sweden. Do	Sept. 24, 1907 Sept. 25, 1907	31, 186	595.00	51, 98
Do	do	890, 053 108, 988	15, 982, 00	1, 483. 42 181. 65
Do	do	108,988	1,833.00	181.65
Germany	Sept. 28, 1907	424, 831 219, 954	8,653.00	708. 06 366. 59
Sweden	Oct 5 1907	85 405	3, 480. 00 1, 314. 00	109.16
Russia	do	65, 495 145, 771 353, 273	2,413.00	242. 95
Germany	do	353, 273	2, 413. 00 6, 081. 00	588. 79
Norway	Oct. 7,1907	134.867	2, 252. 00 15, 271. 00	224.78
Sweden	do	882,598 11,023	218.00	1, 471. 00 18. 37
Germany	Oct. 8, 1907 Oct. 18, 1907	30, 985	731.00	51.64
Swaden	Oct. 18,1907	40 047	744.00	71. 41
Norway Germany Sweden		32, 212 97, 756 107, 182 103, 705	552.00	53. 69
Greeden	do Nov. 4, 1907	97,756	1,625.00	162. 93 178. 64
Germany	Nov. 2, 1907	107, 102	1,833.00 2,425.00	172.84
Norway	d0		558,00	56,00
8weden	do	582, 651 45, 807 53, 840	9, 493. 00	971.09
Norway	do Nov. 11, 1907 Nov. 12, 1907	45,807	780.00	76. 35
Russia	NOV. 11, 1907	158, 421	928. 00 2, 595. 00	89. 73 264. 04
Germany	do	739 343	13,525.00 3,256.00 4,777.00 1,241.00	1, 230, 57
Norway	Nov. 24, 1907 Nov. 25, 1907	171, 565 261, 587 63, 093	3, 256. 00	285.94
Germany	Nov. 25, 1907	261,587	4,777.00	435.98
Do		63,093 959,820	1,241.00 16,071.00	105. 16 1, 599. 70
Germany	Nov. 29, 1907	177, 171	3,006,00	295. 29
Germany	Dec. 3, 1907 Dec. 9, 1907	177, 171 255, 963	4, 453, 00	426.61
Germany	Dec. 3,1907	183,566	3,006.00 1,851.00	305. 94
Russia	Dec. 9, 1907	110,809	1,851.00	184. 68
Sweden	do	210,049	4, 167. 00 737. 00	350.08 70.27
Germany	do	42, 161 329, 332	6,580.00	548, 89
Germany	do Dec. 17, 1907	169,859	2,969.00	283. 10
Norway	Dec. 17, 1907	53, 239	929.00	88. 73
Do	do	164, 871 104, 804	2,827.00 2,169.00	274. 79 174. 67
Germany	do	107, 003	2, 109.00	179.86
Do	do	107, 916 108, 156	1.848.00	180. 26
Germany	1000 10 1007	148.838	2, 578. 00 928. 00	248.06
Norway. Sweden. Do.	Dec. 30, 1907	52, 591	928. 00 310. 00	87.65
Do	1760. 20, 1807	54, 522 164, 198	3 125 00	90. 87 273. 66
Do	IJan. 6.1908	1,046,452	3, 125. 00 18, 527. 00	1,744.09
GermanyDo	dododododo	62,633	I 1999 M	104, 39
Do	do	65, 204	1,351.00	108.67
NorwayGermany	do	65, 204 224, 855 61, 946	1,351.00 3,785.00 1,250.00	374.76 103.24
Russ a	Jan. 11,1908 Jan. 27,1908	154, 937	2,575.00	258. 23
Germany	2000	94,800	1,897.00	158.00

Statement showing importations of wood pulp, filter masse, printing paper, and pulp woods at the port of Boston for the period from January 1, 1907, to June 1, 1908—Continued.

# CHEMICAL WOOD PULP, UNBLEACHED—Continued.

Country of origin.	Date.	Quantity.	Value.	Duty collected
		Pounds.		
Norway	Jan. 27, 1908	56,340	\$936,00	993.90
weden		335, 953	6,661.00	560.00
Russia		110, 281	1,905.00	183, 80
Sweden		44, 375	827.00	73.96
Jermany		182, 407	3, 718, 00	304.01
weden		163, 431	3, 125, 00	282.3
Do		41.066	742.00	68. 44
Do		581.177	9, 478, 00	968.63
Russia		144, 342	2,936,00	240.57
Norway.		219, 296	4, 497, 00	366. 46
Germany		75,948	1,567.00	126.58
Sweden		64, 292	1,241.00	107. 15
Russia		92,669	1,595.00	154 45
Sweden		44, 753	873.00	74.50
Do		218, 278	4, 295, 00	363.80
Germany		386, 975	6, 449, 00	644.86
weden		99,085	1,703.00	165, 14
Russia		93, 525	1,585.00	155.88
Germany		540, 234	9, 480, 00	900.36
Bweden		84,010	1,613.00	140.00
Do		379, 166	6,708.00	631.9
Jermany		229.347	4,736.00	382.2
Sweden.		53,951	1.034.00	89.90
Do		219.658	4, 295, 00	266, 10
Germany		272, 295	5,009.00	463.8
Sweden	do	221, 137	4, 190. 00	368.56
Norway	dodo	109,716	1.894.00	182.8
Sweden		214, 191	8, 386, 00	256.96
Denmark		55, 115	863.00	91.8
Jermany		244.004	5.007.00	406.6
Vorway		44.092	745.00	73.45
		195.396	3, 495. 00	325.66
Sweden		89.600	1,656.00	149.3
Do		38,179	659.00	63.62
Russia		109.246	2.147.00	182.00
		109,246	204.00	16.8
Hermany	May 7,1908	146,393	2,994.00	243.9
		120,936	2,178.00	201. 5
Sweden			4,146.00	372.3
Do	MBY 14,1908	223, 594	4,140.00	8/2.30
Total	Ì	33, 258, 463	604, 626. 00	55, 539. 97
I U WM		00,400,400	w2,020.00	wa, aast. W

## CHEMICAL WOOD PULP, BLEACHED.

	l	Pounds.		
Norway	Jan. 21, 1907	326, 169	\$8, 240. 00	\$815, 42
Sweden		174,746	4,089,00	436, 87
Germany		100, 258	2,779.00	250, 65
Sweden		105, 167	2,727.00	262, 92
Russia		98,013	2, 238, 00	245.03
Germany		100,613	2,971.00	251.53
Norway		1,394,721	85, 177, 00	8, 486, 80
Germany		60,668	1,850.00	151.67
Sweden		227, 993	5, 816.00	569. 98
Do		128, 398	2,884.00	321.00
Do		54, 258	1.527,00	125.65
Norway		582, 978	12, 919. 00	1, 457, 45
Russia		415, 344	11, 144, 00	1,038.36
Germany		193, 975	5, 500.00	484, 94
Do		64, 378	2,697.00	180, 98
Sweden		214, 202	5,049,00	535, 61
Russia	do	202,980	5, 589. 00	507, 45
Do	Mar. 19, 1907	41,575	1,048.00	103, 94
Sweden		53, 989	1, 527, 00	134.97
Germany	Mar. 20, 1907	148, 528	4, 763, 00	371. 32
Norway	Mar. 22, 1907	121, 581	8, 197, 00	303, 95
Do	do	2,095,642	58, 657, 00	5, 239, 11
Do	Apr. 6, 1907	122, 288	2, 884, 00	205, 72
Russia	Apr. 15, 1907	210,900	5, 632. 00	527. 25
Norway		32, 285	809.00	80. 71
Do		1,767,352	43, 542. 00	4, 418, 38
Sweden	Apr. 23, 1907	63,892	1,578.00	159.78
Russia	ا 'ماہ ا	43, 576	1,029.00	108, 94

Statement showing importations of wood pulp, filter masse, printing paper, and pulp woods at the port of Boston for the period from January 1, 1907, to June 1, 1908—Continued.

# CHEMICAL WOOD PULP, BLEACHED-Continued.

Country of origin.	Date.	Quantity.	Value.	Duty collected.
		Pounds.		
Norway	May 1,1907	652, 905 560	\$16, 164. 00	\$1,632.26
Do. Germany	do May 8,1907	34, 451	18.00 826.00	1. 40 83. 13
Sweden Do.	do	34, 451 31, 917	604.00	79.79
Germany	May 9,1907 May 17,1907	96, 103 111, 698	2, 163. 00 3, 550. 00	240. 26 279. 25
Netherlands	do	27, 445	787.00	68. 61
Netherlands Norway Sweden	May 25, 1907	64, 399 107, 448	1,610.00	161.00
Norway	May 27, 1907	953, 113	2, 403. 00 23, 921. 00	268. 62 2, 382. 78
Sweden	June 8.1907	62 618	1.615.00	156. 55
Norway Do	June 10, 1907	52, 118 1, 210, 525	1,341.00 29,790.00 5,762.00	130. 30 3, 003. 81
Kussia	June 12.1907	210, 015	5,762.00	525.04
Germany	do	240, 736	7.320.00	601.84
Do	June 24, 1907 June 25, 1907	89, 821 66, 217	2, 280. 00 1, 783. 00	230.77 165.54
Netherlands. Russia	do	106, 453	2, 875.00	266.13
8weden	June 26, 1907	63, 60 24, 082	1,581.00	159.15
GermanySweden	July 1, 1907	63, 534	919.00 1,441.00	60. 21 158. 84
Russia Germany	July 9, 1907	100, 583	2,863.00	273, 96
Germany		234, 447	5, 972. 00	586. 12
Do	July 15, 1907 July 22, 1907	138, 440 63, 394	3, 122. 00 1, 582. 00	346. 10 158. 50
Belgium	i do	116,052	3, 035. 00	290. 13
Russia	July 23 1907	207.662	5,743.00	519. 16
Russia. Sweden. Do.	Aug. 3, 1907 Aug. 5, 1907	42, 369 108, 826	1,026.00 2,403.00	105. 92 272. 07
France	do	23, 558	476.00	58.90
Germany	do	130, 436	4, 142. 00	326.09
Do. Sweden	Aug. 10, 1907	60, 29 <b>7</b> 53, 8 <b>00</b>	1, 420.00	150. 74 234. 50
Belgium	do Aug. 12, 1907 do	273,607	1, 310.00 6, 743.00	684.02
Germany Sweden	do	247, 1/32	7,570.00	619. 83
Russia.	Aug. 26, 1907	64,796 41,429	1, 525. 00 1, 161. 00	161. 99 103. 57
Sweden	Aug. 27, 1907 Sept. 14, 1907	126, 885 107, 579	3, 033, 00	317. 21
Do	Sept. 18, 1907 Sept. 25, 1907	107, 579 438, 457	2, 435. 00 11, 420. 00	268. 95 1, 096. 14
Sweden	Sept. 28, 1907	52,306	1, 527, 00	130.77
Russia	l do	52,306 314,745	8 622 00	786. 86
SwedenNorway	Oct. 5, 1907 Oct. 7, 1907	51,890 413,555	1,500.00 11,046.00	129. 73 1, 033. 89
Sweden	Oct. 16, 1907	54, 2 <b>26</b> 127, 3 <b>73</b>	1,218.00 3,074.00	135. 57
Do	Oct. 28, 1907	127, 373	3,074.00	318. 43
NorwayGermany	Nov. 4, 1907	690, 480 49, 959	17, 181. 00 1, 388. 00	1,741.20
Russia	Nov 5 1907	274, 133	7.540.00	124. 90 685. 33
Germany	Nov. 12.1907	20, 325	528.00	1 50.81
Norway	Nov. 25, 1907	1,512,047 128,806	37, 877. 00 2, 927. 00	3, 780. 12 322. 02
Sweden Do	Nov. 26, 1907 Nov. 29, 1907	124, 762 284, 731	2,952.00 7,381.00	311.91
Germany	do	284,731	7, 381. 00 7, 381. 00	711. 83 786. 71
Russia	Dec. 3, 1907 Dec. 4, 1907	314,685 83,400	2, 305. 00	208. 50
Sweden Germany	Dec. 9, 1907	83, 400 107, 221 37, 299	3.054.00	268, 05
Germany	Dec. 16, 1907	37, 299 73, 400	1,065.00 1,706.00	93. 25 183. 50
Norwey	Dec. 17, 1907	1, 438, 610	38, 402. 00	3, 596. 53
Sweden Do Russia	Dec. 19, 1907	132, 276	3, 055, 00	330, 69
D0 TRineria	Dec. 30, 1907 Jan. 3, 1°08	106,668 437,841	3, 054. 00	266.67 1,094.60
Norway	Jan. 6, 1:08	1,843,527	12,142.00 46,527.00	4,608.80
Sweden	Jan. 11, 1908	219, 363	5, 402. 00	548. 41
Germany Norway Germany	Jan. 14, 1908 Jan. 27, 1908	40,094 656,749	1, 199.00 16, 951.00	100. 24 1, 641. 87
Germany	Feb. 8, 1908	289,910	8,671.00 11,717.00	724.78
Rnecia	Feb. 6.1908	408.511	11,717.00	1,021.28
Norway	Feb. 11,1908 Feb. 14,1908	186, 223 1, 341, 061	5, 853.00 33, 692.00	465.56 3,352.55
Germany Norway Do Germany	.do	1 48, 738	1.329.00	121.85
Germany	Feb. 24,1908 Feb. 29,1908	109, 446 90, 389	2, 676. 00 2, 133. 00	273.62 225.97
Norway	Mar. 9,1908	845, 316	2, 133.00 22, 259.00	2,113.29
Do	do	20, 333	578.00	50.83

Statement showing importations of wood pulp, filter masse, printing paper, and pulp woods at the port of Boston for the period from January 1, 1907, to June 1, 1908— Continued.

#### CHEMICAL WOOD PULP, BLEACHED-Continued.

Country of origin.	Date.	Quantity.	Value.	Duty collected.
Sweden	Mar. 23,1908 Apr. 9,1908 Apr. 13,1908 Apr. 21,1908 dododo	Pounds. 94,012 55,972 56,603 57,451 57,581 48,358 1,087,468 109,816 164,557 512,141	\$2,133.00 1,867.00 1,763.00 1,331.00 1,761.00 1,329.00 28,136.00 3,418.00 4,049.00 14,598.00	\$225. 02 139. 93 141. 51 143. 63 149. 95 120. 90 2, 718. 67 274. 54 411. 36
Total		31, 184, 193	815, 324.00	78, 036. 32

#### FILTER MASSE OR FILTER STOCK.

Germany	June	25, 1907	Pounds. 2, 205 2, 205 1, 102	\$263.00 256.00 162.00	\$72.53 71.48 40.83
Total		•••••	5,512	681.00	184.84

#### PRINTING PAPER.

			Pounds.		
ngland	Feb.	1,1907	10,785	<b>87</b> 55. 00	\$113.2
Do	Feb.	18,1907	21,784	1,512.00	226. 8
Do	Feb.	23,1907	1,789	125, 00	18. 7
Do	Mar.	25,1907	600	232.00	34.8
Do	Apr.	2,1907	2,400	143.00	21. 4
Do	Apr.	4,1907	4,587	232, 00	34.6
elgium	Apr.	5,1907	81,607	1,458.00	252. 8
ngland	May	20,1907	9,821	721.00	108. 1
Do	June	3,1907	28,911	2,188.00	328. 2
Do		14,1907	707	72.00	10.8
Do	Aug.	30, 1907	20.860	1,461.00	219.1
cotland	Oct.	1,1907	1,891	79.00	16.1
Ingland	Oct.	5,1907	2,530	366, 00	54.9
Do		31,1907	1,950	156, 00	20. 7
Do	d	0	1,187	95, 00	14.2
Do	Nov.	4,1907	293	25, 00	11.0
Do	Jan.	25,1908	4.788	784, 00	285. 1
Do	Feb.	20,1908	360	27, 00	4.0
Do	Mar.	6,1908	2.075	98.00	16.6
Do		30,1908	12.793	897.00	134. 5
Do		6,1908	9.478	665, 00	99. 7
Do	Apr.	22,1908	20,677	1,447.00	217. 0
Total			191,873	13,538.00	2,242.1

No pulp wood was imported. No additional duties collected during the period from January 1, 1907, to June 1, 1908, on importations under paragraphs 393 or 396 of the tariff act of 1897.

# PORT OF BANGOR, ME.

Importations from New Brunswick at Bangor, Me., from January 1, 1907, to June 1, 1908.

GROUND WOOD PULP.

Date.	Entry No.	Quantity.	Value.	Duty.	Date.	Entry No.	Quantity.	Value.	Duty.
1907. Sept. 21 Oct. 1 8 9 10 12 16 17	2484 2789 3010 3042 3083 3151 3311 3332 2430	Pounds. 30,000 20,000 20,000 30,000 30,000 29,400 30,000 49,000	\$225.00 150.00 150.00 225.00 221.00 225.00 225.00 368.00	\$25.00 16.67 16.67 25.00 24.50 25.00 40.83 25.00	1907. Oct. 22 28 28 Nov. 15 19 1908. Jan. 18	3525 3801 3807 4707 4931 7945	Pounds. 30,000 50,000 30,000 30,000 30,000	8225.00 375.00 225.00 225.00 225.00	\$25.00 41.67 25.00 25.00 25.00
19	8507	30,000	225.00	25.00	Total		498,400	3,739.00	415.84

### CHEMICAL PULP, UNBLEACHED.

1907.	- 1	Pounds.	ì		1907.		Pounds.		
Jan. 1	6508	38, 267	\$823.00	\$63.78	Feb. 2	8539	44,800	\$941.00	\$74.67
3	6587	55.030	1,183.00	91.72	2	8540	39,160	775.00	66. 27
3	6588	54,756	1,095.00	91.26	4	8651	55,097	1.102.00	91. 83
5	6699	111,728	2,123.00	186, 21	4	8652	54,209	1,084.00	90. 3
5	6700	38,006	734.00	64. 34	i i	8653	37,240	782.00	62. 07
7	6775	186,759	8,548.00	311.27	5	8670	109,096	2,075.00	181. 83
7	6777	75,670	1,438.00	126, 12	5	8681	38,297	738.00	63. 8
7	6778	45.578	1,167.00	92,63	6	8703	72,228	1,372.00	120. 38
7	6779	48,720	1,121.00	81.20	ĕ	8704	36,914	701.00	61. 5
7	6780	46,929	915.00	78. 22	ĕ	8705	36,729	698.00	61. 2
7	6781	36,754	698.00	61.26	. š	8894	76,396	1,757.00	127. 3
7	6782	86,019	684.00	60.03	11	9012	46,872	914.00	78. 1
7	6831	53,250	1,065.00	88.75	l ii l	£(£6	106,660	2.027.00	177. 7
7	6832	38,473	731.00	64. 12	ii	9067	74,941	1,424.00	124.90
7	6833	87,738	717.00	62.90	îî	9068	37,820	719.00	63. 0
7 1	6834	37,520	807.00	62.53	. ii	9069	87,636	715.00	62. 72
10	7040	58,178	1,134.00	96.96	ii	9070	37,429	711.00	62. 3
10	7041	55,167	1,103.00	91.95	ii	9071	37,078	704.00	61. 80
10	7042	87,456	712.00	62. 43	12	9127	58,913	1,149.00	98. 19
10	7043	35,662	678.00	59.44	12	9128	37,986	760.00	63. 3
iil	7093	87,844	719.00	63.07	13	9163	55,646	1,113,00	92. 74
ii l	7094	37,734	717.00	62.89	13	9164	50,524	1,010.00	
ii	7095	87,411	711.00	62.35	13	9165	37,847	757.00	84. 21
12	7139	54,209	1,084.00	90.35	15	9259	108,723	2,066.00	63. 00
12	7140	52,071	1,093.00	86.79	15	9261	44,912		191. 21
12	7141	36,693	697.00	61.16	15	9262	35,788	943.00	74. 85
14	7189	54,893	1,153.00	91. 49	15	9341		680.00	59. 68
14	7190	49,280	1,060.00	82. 13	15	9342	53,658	1,046.00	89. 43
14	7191	40,491	769.00	67. 49	15	9343	50,520	1,010.00	84. 21
14	7192	38,290	728.00	63. 82			50,275	1,005.00	83. 79
13	7193	38,067	723.00	63. 45	18	9475	50,462	1,060.00	84.10
14	7194	36,653	696.00	61.09	18	9554	71,554	1,360.00	119. 20
14	7286	91,558	1,531.00	152.60	18	9555 9556	85,789 35,370	680.00	<b>59.</b> 60
14	7287	37,211	707.00	62.02	18			672.00	58.90
14	7319	37,712	717.00	62.85	18 19	9557 9564	34,137 73,785	649.00	56.90
17	7442	75,763	1,439.00	126, 27	19	9565	37,420	1,402.00	122. 96
17	7443	57,102	1,142.00	95. 17	19	9566	36,351	711.00	62. 37
18	7520	54,551	1,146.00	90. 92	19	9567	35,530	691.00	60. 59
18	7521	44,017	946.00	73. 36	19	9568	34,567	675.00 657.00	59. 2
21	7721	57,493	1.121.00	95. 82	20	9591	37,212		57. 61
21	7722	54,482	1,144.00	90, 80	20	9592	36,260	707.00 689.00	62. 02 60. 43
21	7723	44,352	887.00	73. 92	20 25	9783			
21	7724	87,472	712.00	62, 45	25	9784	67,044 87,403	1,307.00 1,121.00	111.74
21	7778	56,672	1,105.00	94. 45	25 25	9842	<b>5</b> 7,493 <b>5</b> 5,167		95. 82 91. 95
21	7774	53,661	1,154.00	89. 44	25	9843	50,586	1,103.00	84. 31
24	7964	53,592	1,072.00	89. 32	25	9844	38,303	1,012.00	
	8070	54,140	1,083.00	90, 23	26	9858	63,544	805.00 1,279.00	63. 86 105. 91
25	8071	38,042	722.00	63. 40	26	9659	87,893	1,279.00	
25 25 28 28 28 28 28	8183	37,931	721.00	63. 22	Mar. 1	9916	88,453	758. 00 769. 00	63. 16
22	8184	37,736	717.00	62. 89	m.m.r. 1	9917	36,501	694.00	64.00
20	8185	37,636	715.00	62, 73	l i	9918	36,070	685.00	60. 84
20	8186	37,474	712.00	62. 46	2	9997	37,608		60. 12
90	8187	36,559	695.00	60, 93	4	10030		715.00	62.6
90	8228	51.876	1.038.00	86. 46	4	10030	112,878	2,145.00	188. 12
90	R220						58,452	1,140.00	97. 42
28 28 28 28	8230	46,929 43,052	915. 00 926. 00	78. 22 71. 75	4	10035	55,646	1,113.00	92. 74
<b>20</b>	8231	38,578	920. UU	11.10	4	10036	36,373 <b>37,</b> 893	691.00 796.00	60. 62 63. 16

CHEMICAL PULP, UNBLEACHED-Continued.

		CHE	MICAL P	ULP, UN	BLEACH	SD—Con	tinued.		
Date.	Entry No.	Quantity.	Value.	Duty.	Date.	Entry No.	Quantity.	Value.	Duty.
1907.		Pounds.			1907.		Pounds.		
Mar. 4	10057	36,450	\$793.00	\$80.75	Apr. 22	11526	36, 150	2087.00	<b>86</b> 0. 25
4	10058	36,268	689. 00 677. 00	60. 45 59. 41	22	11527 11589	34, 978	665.00	58.30
6	10093	35,646 35,158	668.00	58.60	25	11688	38, 264 44, 969	727.00 877.00	63.77 74.96
6	10135	215,971	4,103.00	359.95	25	11689	87, 240	745.00	62.07
6	10139	36,764	699.00	61. 27	25 25	11690	87,057	704.00	61.76
8 9	10163 10181	35,558 40,413	676. 00 788. 00	59. 26 67. 36	27	11691 11773	84, 925 51, 769	664.00 1,035.00	58. 21 86. 28
11	10227	35,524	675, 00	59.21	27	11774	46, 200	970.00	77.00
12	10253	145,016	2,753.00	241.69	27	11776	38, 267	804.00	63.78
12 12	10254 10255	49,990	1,000.00	83. 32 61. 75	29 29	11820 11821	109, 859 108, 776	2,087.00	183. 10 181. 29
12	10256	37,061 35,998	704.00 684.00	60.00	29	11822	38, 260	2, 065. 00 727. 00	63.77
13	10269	56,330	1.127.00	93.88	29	11864	51. 520	1 1020 00	85.87
13	10270	00,715	1,114.00	92.66	May 2	12001	<b>53</b> , 386	1,041.00	88.98
13 13	10271 10272	36,799 36,173	699. 00 687. 00	61.33 60.29	2	12002 12003	51, 769 42, 659	1, 035. 00 853. 00	86.28 71.10
14	10293	35,681	678.00	59, 47	2 3	12032	56, 125	1.123.00	93.54
14	10294	34,216	650.00	57.03	3	12033	49,240	1,034.00	82.07
14 14	10295 10296	34,007 33,732	646.00 641.00	56. 68 56. 22	6	12105 12107	35, 763 35, 554	679. 00 676. 00	59. 61 59. 26
16	10365	38,500	809.00	84 17	6	12108	35, 118	667.00	58.53
18	10392	38, 453 37, 704	808.00	64. 09 62. 84	6	12109	34, 901	663.00	58. 17
18	10397 10398	37,704	792.00 694.00	62. 84 60. 87	6	12134 12135	48, 708 38, 967	974.00	81.18 64.95
18 18	10399	36, 520 36, 254	689.00	60. 87 60. 42	6	12135	38, 967 38, 873	779.00 875.00	64.79
19	10430 10431 10445	106, 314	2,020.00	177. 19	6	12137	38,827	815.00	64.71
19	10431	70,770	1,345.00	117. 95	6	12138	<b>35, 589</b>	676.00	59. 32
20 22	10445	48,552	947. 00 795. 00	80. 92	6	12175 12176	177, 738 34, 993	3, 374, 00 665, 00	296. 23 58. 32
25	10536	37,847 69,395	1,319.00	63.08 115.66	l 9	12243	37,800	794.00	63.00
25	10537	1 38.173	1 763.00	63. 62	9	12283	69, 562	1, 322, 00	115.94
25	10575	54, 258	1,058.00	90. 43	9	12284 12285	63, 156	1, 326.00	105. 26
25 25	10576 10577	38,080 35,912	800. 00 682. 00	63. 47 59. 85	9	12286	53, 200 51, 084	1, 037. 00 1, 022. 00	88. 67 85. 14
25	10578	35, 218	669.00	58.70	5	12287	45, 297	974.00	75. 50
26	10594	38, 173	763.00	63. 62	9	12288	38, 127	763.00	63. 56
26 27	10595 10631	38,033 41,259	761. 00 784. 00	63. 39	11 13	12335 12367	<b>3</b> 9, 760 <b>5</b> 5, 987	775.00 1,120.00	66. 27 93. 31
27	10633	34,349	653, 00	68. 77 57. 25	13	12368	55, 509	1,110.00	92.52
28	10672	70,931	1.348.00	118.22	13	12389	<b>50.275</b>	1,006.00	83. 79
28 28	10674	38, 593	772.00 680.00	64. 32 59. 63	14 14	12399 12400	135, 719	2, 579. 00 735. 00	226, 20 62, 85
28	10675	35,777 36,118	686.00	60.20	16	12482	37, 707 36, 173	763.00	63. 62
29	10716	38,547	809.00	64, 25	16	12495	56, 193	1, 124. 00	93.66
30	10745	38,173	802.00	63. 62	16	12496	38,640	850.00	64. 40
Apr. 4	10874 10875	74,677 38,593	1,419.00 772.00	124. 46 64. 32	16 17	12497 12527	38, 640 38, 453	811.00 808.00	64. 40 64. 09
6	10921	48,609	948.00	81. 02	18	12560	103,818	1 0222 00	173.03
6	10938	43, 528	914.00	72. 55	18	12561	72,872	1.385.00	121.45
6 8	10939 10973	35,773	680.00 2,053.00	59. 62 180. 05	20 20	125/7 12579	54, 209 37, 567	1,084.00 789.00	90. 35 62. 61
8	10974	108, 032 38, 407	807.00	64.01	20	12617	60, 231	1,175.00	100. 39
8	11003	107.705	2,046.00	179. 51	20 21 21	12618	87, 147	836.00	61. 91
8	11004	40,569	811.00	67. 62	21	12643 12644	60, 027 41, 136	1, 170. 00 782. 00	100.05 68.56
8 8	11005 11006	38, 173 35, 041	802. 00 636. 00	63. 62 58. 40	21	12644	35, 372	672.00	58.95
9	11019	35,854	681.00	59. 76	23 24	12721	50, 524	1,061.00	84.21
10	11068	56,262	1.125.00	93, 77	24	12739	63, 311	1.361.00	105. 52
10 10	11069 11070	46,312 41,416	926.00 828.00	77. 19 69. 03	24 24	12740 12741	50, 462 87, 427	1,060.00 786.00	84. 10 62. 38
10	11071	36,618	696.00	61. 03	25 25	12797	109, 352	2,078.00	182.25
10	11072	35,628	677.00	59. 38	25	12798	38,080	838.00	63. 47
12 12	11127 11128	60, 573	1, 181. 00 929. 00	100.96 79.40	25 25	12799 12800	37, 973 37, 868	721.00 719.00	63. 29 63. 11
12	11128	47, 639 45, 570	911.00	75. 95	27	12817	88, 033	799.00	63. 39 89. 99
12	11130	39,060	781.00	65. 10	27	12838	53,934	1, 133. 00	89, 99
12	11131	36,686	697. 00	61. 14	27 29	12839	87,753 84,784	793.00	62.92 91.26
· 12	11151 11166	35, 538 37, 798	675. 00 718. 00	59. 23 62. 99	. 29	12904 12905	54, 756 41, 191	1, 067. 00 783. 00	68.65
15	11242	50,779	1.016.00	84, 63	29	12906	89,070	742.00	65.12
15	11261	148,960	2,830.00	248.27	29	12907	37,707	830.00	62.85
18	11381 11493	38, 547 39, 946	80.00 779.00	64. 25 66. 48	29 29	12908 12909	87, 707 85, 892	792. 00 682. 00	62.85 89.82
20 20 22	11494	38,080	762.00	63. 47	29	12910	84, 194	650.00	56, 99
22	11523	75,883	1, 442. 00 775. 00	126, 47	29	12912	28, 302	538.00	47.17
22 22	11524	38,733	775.00	64. 56 64. 40	30 81	12944 12978	40, 204	764.00 891.00	67.01 51.84
22	11525	38,640	773.00	OL 60	u 21	120/8	81, 106	. mr. no.	· 41.04

CHEMICAL PULP, UNBLEACHED-Continued.

Dat	8.	Entry No.	Quantity.	Value.	Duty.	Date.	Entry No.	Quantity.	Value.	Duty.
190			Pounds.			1907.		Pounds.		
May	31	13003	54, 551 31, 949	\$1,091.00 607.00	\$90. 92 53. 25	July 1	87	37,707	\$792.00	\$62.85
June	31	13004 13021	54, 893	1,180.00	91. 49	1 3	38 107	37,147 29,517	799.00 561.00	61.91 49.20
	1	13022	53,661	1, 127, 00	89. 44	4	138	30,317	<i>5</i> 76. 00	50, 53
	1	13023	80, 423	579.00	50.71	5	180	55,988	1,092.00	93. 31
	3	13069 13070	55, 440 85, 504	1, 164. 00 675. 00	92. 40 59. 17	5 6	183 210	33, 509 62, 533	637.00 1,251.00	55. 85 104. 22
	3	13071	33,349	634.00	<b>55. 58</b>	6	211	87, 893	758.00	63. 16
	3	13082	37, 893	834.00	63. 16	6	212	37, 100	798.00	61.83
	3	13083 13084	33,746	641.00 571.00	56. 24 50. 07	8 7	246	58, 885 53, 704	1,129.00 1,047.00	98. 14 89. 51
	4	13104	30, 040 31, 826	605.00	53.04	7	247 248	53,704 49,201	984.00	82, 00
	4	13105	81,590	600.00	52.65	9	280	117,712	2, 342, 00	196, 19
	5	13126 13184	33, 096 57, 289	629.00 1,117.00	55. 16 95. 48	10	281 313	55, 987 31, 281	1,232.00 594.00	93. 31
	6 6	13185	55, 720	1,114.00	92.87	12	381	54,756	1,095.00	52. 14 91. 26
	6	13186	49,778	996. 00	82.96	12	382	36, 827	710.00	61.38
	6 7 7 7 7	13254 13255	72,320 55,714	1,374.00	120. 53	12 12	385 388	30, 803 27, 331	585.00 519.00	51. 34
	7	13256	55,030	1, 114.00	92. 86 91. 72	13	417	70,776	1,344.00	45.55 117.96
	7	13257	37, 520	1, 101. 00 788. 00	62, 53	13	418	55,987	1,092.00	117. 96 93. 31
	7	13259	35, 507	675.00	59. 18	13	419	54,755	1,095.00	91.26
	8	13305 13306	143, 015 102, 157	2,755.00 1,941.00	241.69 170.26	13 15	420	54, 346 61, 911	1,168.00 1,362.00	90. 58 103. 19
	10	13336	lf 980	20, 00	a 1.63	15	443 444 445 470	56, 467	1, 101. 00	94, 11
			54, 258	1,085.00	90. 43	15	445	82,073	609.00	53. 46
	10 10	13337 13388	38, 033 32, 459	799. 00 617. 00	63. 3 [^]	15 16	485	50, 213 112, 341	1,105.00 2,232.00	83. 69 187. 24
	11	13412	69,067	1,312.00 766.00	115. 11	16	488	37, 893	853.00	63. 16
	11	13413	36, 493	766.00	60.82	17	515	62,611	1,252.00	63, 16 104, 35
	12 13	13452 13472	29,274 38,080	856. 00 800. 00	48. 79 63. 47	17 17	516 517	56, 193 37, 893	1,096.00 796.00	93. 66 63. 16
	14	13502	38, 173	821.00	63.62	18	545	73,904	1, 404. 00 1, 174. 00	123. 17
	14	13503	35,756	679.00	59. 59	18	546 548	54, 619	1, 174. 00	91.03
	14 14	13504 13505	33,250 31,682	632. 00 602. 00	55. 42 52. 80	18 18	548 549	37,940 37,526	797.00 713.00	63. 23 62. 54
	15	13569	61,661	1,268.00	102, 77	19	587	55, 440 61, 755	1, 109. 00	92. 40
	15	13570	37,986	1,268.00 741.00	63. 31	20	624	61,755	1,297.00	102, 93
	15 15	13572 13573	37,427 37,240	786. 00 782. 00	62. 38 62. 07	20 20 20 22 22 23 24	626 627	54, 961 54, 619	1,099.00 1,092.00	91. 60 91. 03
	15	13574	84, 182	649 00	56.97	22	701	54, 893	1.070.00	91.49
	17	13624	55,303	1.106.00	92. 17	22	702	54.551	1,091.00	90. 92
	17 17	13650 13651	64,011 49,467	1,248.00 989.00	106. 69 82. 45	23	715 739	50.897 35,342	993.00 672.00	84. 83 58. 90
	17	13652	37,986	798.00	63. 31	1 26	812	55,790	1,116.00	92.98
	17	13653	37,660	753.00	62. 77	26	816	36, 344	691.00	60. 57
	20	13730 13731	55,030 37,707	1,101.00 754.00	91. 72 62. 85	20	817 854	35, 591 107, 837	676.00 2,048.00	59.32 179.73
	21	13787	68,706	1,305.00	114. 51	27	856	54,619	1,065.00	91.03
	21	13788	38,267	765.00	63, 78	27	857	49,902	998.00	83. 17
	21	13789 13790	37,893 37,637	796.00 715.00	63. 16	26 26 27 27 27 27 27 27 28 29	858	49, 529 36, 400	1,040.00 783.00	82. 55 60. 67
	22	13862	69,160	1.314.00	62. 73 115. 27	29	861 887	62,378	1.310.00	103. 99
	17 20 20 21 21 21 22 22 24 24 24 25	13963	55.578	1, 112.00	92. 63	29	888	49,778	1,045.00	82.96
	22	13864	32,811 237,150	623.00 4,505.00	54. 69 395. 25	29 29 29 29	889 890	37, 632 36, 353	715.00 691.00	62.72
	24	13898 13899	36,529	694.00	60.88	29	891	35, 623	677.00	60. 59 59. 37
	24	13945	37,707	792.00	62.85	29	892	35,052	666.00	58. 42
	25	13956 13957	63,001	1,198.00	105.00	29 30	925	37, 427 249, 885	730.00 4,748.00	62.38 416.48
	25 25	13958	38,033 37,893	761.00 796.00	63. 39 63. 16	30	943 944	55,030	1, 156, 00	91.72
	26	14009	55,303	1,106.00	92.17	30	944 945	54,756	1,095.00	91.26
	26	14010	37, 427 31, 680	805.00	<b>62. 38 52. 80</b>	Aug. 2	1023 1024	54, 619 53, 312	1,065.00 1,039.00	91.03 88.85
	27	14011	31,680 59,988	1,091.00	93.31	2	1025	49, 156	983.00	R1 Q2
	25 25 26 26 27 28 29 29	14063 14064	37,707	792, 00	62.85	2	1045	36, 138	687.00	60. 23 90. 35
	29	14124	55,303	1,106.00	92.17	5	1109	54, 209	1,084.00	90. 35
	20	14125 14126	45, 192 44, 318	904.00 864.00	75. 32 73. 86	5 5	1110 1143	50,027 72,399	1,051.00 1,376.00	83. 38 120. 67
	29 29	14127	37,613	752.00	62.69	5	1144	35, 938	683. 00	60 On
July	1	5	31,107	591.00	51.85	6	1165	53, 729	1, 155. 00	89. 55 83. 79
	1	31 32	64, 036 63, 895	1,216.00 1,314.00	106. 73 106. 49	6 8	1166 1232	50, 275 56, 816	1,056.00 1,193.00	94.69
	1	33 34	55, 303	1,161.00	92. 17	8	1234	37, 380	841.00 2,694.00	62, 30
	1	34 35	55, 167	1,159.00 796.00	91, 95	9	1262 1327	141,774	2,694.00	236. 29 91. 26
	1		37,893 37,893	796.00	63. 16 63. 16	10 10	1327	54, 756 54, 551	1,205.00 1,091.00	90.92

s Increase.

CHEMICAL PULP, UNBLEACHED-Continued.

Dat		Entry No.	Quantity.	Value.	Du <b>ty</b> .	Date.	Entry No.	Quantity.	Value.	Duty.
1907			Pounds.			1907.		Pounds.		
Aug.	12	1351	55, 578	\$1,084.00	<b>\$92.63</b>	Sept. 23	2551 2593	36, 876 53, 934	\$701.00 1,079.00	\$61. 46
	12 12	1352 1353	52, 397 37, 614	1, 048. 00 884. 00	87. 33 62. 69	25 25	2594	48,782	976.00	89. 89 81. <b>30</b>
	12	1354	35,788	680.00	59.65	26 27	2635	36,960	739.00	61.60
	12	1377	147.893	2,813.00	246. 49	27	2661	49, 902	973.00	83. 17
	12	1379	36, 400	783.00	60.67	> 27 28	2664 2691	36,773 36,876	735.00	61. 29 61. 46
	13 13	1411 1412	37, 272 37, 147	708. 00 780. 00	62. 12 61. 91	28	2692	36,876 36,800	701. 00 700. 00	61. <b>33</b>
	13	1413	36, 034	685.00	60.06	28 28	2693	36,800 36,680	734.00	61. 13
	15	1465	54, 209	1,084.00 774.00 717.00 1,068.00	90.35	28 30 30 Oct. 2	2694	36,319	690. 00 1, 124. 00	60.53
	15	1466	36, 867	774.00	61. 45 62. 92	30	2738	53, 524 37, 209	1, 124. 00	89. 21 62. 02
	16	1487 1519	37, 749 53, 387	717.00	62.92	Oct. 2	2742 2821	37, 209 73, 484	707. 00 1,396. 00	122.47
	17 17	1520	48, 347	943.00	88. 98 80. 58	OCL 2	2824	87, 427	788.00	62.38
	19	1545	56, 959	1, 139. 00	94.93	2 2 2	2825	87.230	707.00	62.05
	19	1572	150, 410	2,858.00	<b>250</b> , 68	2	2859	60,978	1,280.00 1,206.00	101.68
	19	1578	76, 511	1, 450. 00 963. 00	127. 52	2 5	2860 2915	60,278 37,053	1,208.00 778.00	100. 46 61. 76
	20	1589 1615	49, 404 54, 209	1, 193. 00	82.34 90.35	8	2916	36,960	721.00	61.60
	21	1617	37, 147	780.00	61.91	) ž	2966	53, 250	1,065.00 832.00	88. 75 61. 60
	19 20 21 21 22 23 24 26 26 26 27 27 27	1650	76,759	1.459.00	127, 93	7 7 7	2967	36,960	832.00	61. 60
	23	1685	148,987	2, 831. 00 782. 00	248. 31	7	2968	36, 493 36, 400	730.00	60. 82
	23	1697 1726	37, 240 54, 209	1,057.00	62. 07 90. 35	9	2969 3030	73,006	764.00 1,387.00	60, 67 121, 68
	26	1756	37,713	717.00	62.86	Ĭ	3031	71 004	1, 367, 00	119.99
	26	1757 1760	1 87.007	703.00	61.68	9	3032	E4 000	1,367.00 1,057.00	119.99 90.35
	26	1750	35, 962	684 00	59. 94	10	3074	37, 193	781.00	61.99
	26	1797	53, 044 53, 250	1, 114. 00 1, 065. 00	88. 41 88. 75 86. 36	12 12	3143 3144	53, 867 53, 259	1,131.00 1,118.00 1,075.00	89.78 88.77
	27	1800 1801 1803	51, 813	1.098.00	86.36	14	3195	53,729	1.075.00	89.55
	27	1803	51, 813 36, 727	1,098.00 771.00	61.21	14	3195 3196	53, 661	1,127.00	89, 64
	31	1915	74,704	1.419.00	124.51	14	3197	50,633	1,013.00	84. 39
	81	1916	56, 887	1,252.00	94. 81	16 16	3288 3309	48,036 53,386	1,009.00 1,068.00	80.06
	81 31	1917 1918	37, 100 36, 587	742.00 768.00	61. 83 60. 98	18	3345	55, 957	1,119.00	88. 98 93. 26
Sept.	2	1931	76, 488	1,453.00	127. 48	18	3346	52,840 49,280	1,057.00	88.07
	2	1932	57,746	1,453.00 1,155.00	96, 24	18	3347	49,280	961.00	82.13
	2	1933	41,518	830.00	69. 20	18	3378	35, 500	683. 00 647. 00 630. 00	59. 27
	2	1934 1935	37,941 37,247	721. 00 708. 00	63. 24 62. 08	18 18	3390 3381	34, 448 33, 073	630.00	57. 41 55. 12
	2	1936	36,680	715.00	61. 13	19	3415	184, 563	8.073.00	207.50
	2 2 6	1937	36, 447	765.00	60.75	19	3419	74, 221	1,237.00	123.70
	6	2066	110,632	2, 102. 00	184. 39	19	3420	71,205	1,355.00 1,223.00	118.68
	6	2067 2068	37,711 37,314	716.00 709.00	62. 85 62. 19	19 19	3421 3422	61, 133 60, 278	1,206.00	101.89 100.46
	7	2102	37,792	718.00	62. 99	19	3423	35 684	680.00	59, 47
	9	2128	111,603	2, 120. 00	186, 01	19	3479	137,723	2, 267. 00	229.54
	9	2161	37, 792 111, 603 37, 240	782.00	62. 07 61. 76	19 21	3504	58,250	1,065.00	88. 75 89. 66
	10 10	2176 2177	37,053 36,811	741. 00 699. 00	61. 76 61. 35	21	3454 3455	53, 797 34, 621	1,049.00 658.00	89.06 87.70
	11	2206	38, 316	728.00	63, 86	21 22	3524	60,045	1,201.00	100.08
	11	2208	36, 172	687.00	60. 29	22 22	3525	58, 661	1, 126. 00	89.44
	12	2233	73,874	1,404.00 709.00	123. 12 62. 17	22	3526	36,960 60,822	776 00	61. 60 101. 37
	12 12	2234 2235	37, 302 37, 058	709.00 704.00	62. 17 61. 76	24	3608 3609	I 53.112	1,277.00 1,062.00	101.37
	12	2236	36.068	685. 00	60.11	24	3611	36, 680	770.00	88. 52 61. 13
	16	2309	54, 961 38, 328	1,099.00	91, 60	24 25	3615 3647		608, 00	56.86
	16	2311	38, 328	728.00	63, 88	25	3647	63, 537 52, 840 165, 686	1,094.00	56. 86 105. 90 88. 07
	19	2426 2427	77,091	1,465.00 722.00	128. 49 63. 36	25 26	3648 3688	02,840 165,694	1,110.00 2,722.00	88.07 276.14
	19 19	2427	38,013 37,810	718.00	63. 36	26	3691	36,867	774.00	61.45
	20	2449	1 54.619	1,092.00	91.03	26	3692	36,773	772.00	61. 29
	20	2450	38,817	738. 00	64. 70	26	3693	36, 120	722.00	61. 29 60. 20
	20	2451	38, 173	859.00	63. 62 63. 04	26	8698	82, 548 66, 308	530.00	54. 25 110. 51
	20	2452 2453	37, 822 37, 427	719.00 786.00	62. 38	26 26 26 26 28 28 28	3798 3800	23, 078	1,084.00 540.00	55. 13
	20	2454	37,333	784.00	62. 22	29	3839	33,076 103,924	2, 182, 00	173 21
	20	2454 2455	36,913	701.00	61. 52	29	3840	49, 031	956.00	81.72
	20	2456	36, 595	695.00	60. 99	30	3887	36, 773	772.00	61.29
	23	2515 2517	73.871 49,280	1,404.00 961.00	123. 12 82. 13	Nov. 1	3987 3989	53, 113 36, 960	1, 115. 00 721. 00	88.52 61.60
	23	2519	38, 518	732.00	64. 20	! 1	3990	36, 867	774.00	61.45
	23	2520	36,764	706.00	61. 27	2	4026	36, 867 53, 250	1,065.00	61. 45 88. 75
	23	2547	53.867	1,077.00	89.78	4	4080	139, 906	2, 449. 00	233.18
	20 20 20 20 20 20 20 23 23 23 23 23 23 23 23 23 23 23 23 24 25 26 26 27 28 28 28 28 28 28 28 28 28 28 28 28 28	2548 2549	39, 412 30, 243	749.00	65. 69 65. 41	4 5	4122 4146	50, 102 105, 962	1,062.00 2,119.00	83.50 176.59
	22	2550	39,243 87,439	746.00 711.00	62.40	هٔ ا	4151	105, 962 35, 747	781.00	59.58

CHEMICAL PULP, UNBLEACHED-Continued.

Date.	Entry No.	Quantity.	Value.	Duty.	Date.	Entry No.	Quantity.	Value.	Duty.
1907. Nov. 6 8 8 8 8 9 11 11 12 12 13 13 14 14 14 14	4178 4304 4306 4307 4308 4350 4450 4456 4486 4543 4544 4629 4659 4663 4700	Pounds. 53, 387 201, 089 55, 440 55, 118 35, 732 35, 840 36, 127 54, 482 106, 319 36, 400 54, 971 63, 934 63, 524 63, 539 997 104, 438	\$1,088.00 \$,598.00 1,081.00 1,092.00 835.00 721.00 1,062.00 1,062.00 1,068.00 1,068.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00 1,009.00	\$88. 98 335. 15 92. 40 98. 52 \$9. 55 59. 73 60. 65 90. 85 178. 03 60. 67 90. 12 89. 89 89. 89 89. 89 89. 81 84. 06 61. 13 233. 33 173. 33	1907. Dec. 21 21 22 23 23 23 23 23 23 23 23 23 23 23 23	6594 6595 6641 6703 6704 6803 6804 6805 6806 6807 6808 6809 7090 70701 7171	Pounds. 74,048 26,946 37,496 88,103 53,798 875,411 56,672 56,387 85,671 84,346 50,969 108,405 63,334 53,798 74,573	\$1,304.00 651.00 669.00 1,191.00 1,775.00 1,198.00 1,199.00 1,119.00 1,111.00 1,114.00 1,019.00 2,208.00 1,068.00 1,076.00 1,318.00	\$123.41 61.55 62.49 96.89.66 125.66 94.49 93.39 93.27 90.58 84.93 180.01 89.85 89.85 89.85
15 16 16 16 16 18 18 18 18 18 19 19 19 23 23 23 25 25 25 27 27 28 29 20 20 2 2 2 2 2 2 4 4 5 5 6 6 6 9 9 9 9 9 11 111 13 13 16 6 16 16 17 17 17 17 18 18 18 18 18 18 19 19 19 20 20 20 20	4701 4736 4737 4738 4858 4896 4897 4921 4922 5006 5113 5114 5119 5120 5121 5215 5316 5316 5317 5316 5317 5376 5476 5476 5573 55734 5625 6627 5731 5626 6029 6310 6341 6342 6344 6345 6344 6345 6344 63446 6509	104, 035 57, 388 54, 385 51, 222 36, 773 52, 463 36, 307 58, 032 51, 469 39, 311 58, 330 58, 330 58, 369 77, 390 36, 127 58, 103 38, 433 111, 432 54, 670 40, 686 38, 134 38, 438 55, 987 51, 670 39, 644 110, 196 58, 247 111, 629 56, 241 110, 196 58, 247 154, 438 108, 253 61, 670 39, 644 110, 196 58, 247 154, 438 108, 253 61, 670 39, 644 110, 196 58, 247 154, 438 108, 253 61, 670 39, 644 37, 940 37, 940 37, 161 37, 940 37, 161 37, 940 37, 161 37, 940 37, 161 37, 940 37, 161 37, 940 37, 161 37, 940 37, 161 37, 940 37, 161 37, 940 37, 161 37, 940 37, 161 37, 940 37, 161 37, 940 37, 161 37, 940 37, 161 37, 940 37, 161 37, 940 37, 161 37, 940 37, 161 37, 940 37, 161 37, 940 37, 161 37, 940 37, 161 37, 940 37, 161 37, 940 37, 161 37, 940 37, 161 37, 940 37, 161 37, 940 37, 161 37, 940 37, 161 37, 161 37, 161 37, 161 37, 161 37, 161 37, 161 37, 161 37, 161 37, 161 37, 161 37, 161 37, 161 37, 161 37, 161 37, 161 37, 161 37, 161 37, 161 37, 161 37, 161 37, 161	1,818.00 1,119.00 1,118.00 1,024.00 726.00 1,023.00 726.00 1,004.00 700.00 1,141.00 1,025.00 1,132.00 1,132.00 1,132.00 1,132.00 1,132.00 1,132.00 1,132.00 1,132.00 1,132.00 1,132.00 1,132.00 1,132.00 1,132.00 1,132.00 1,132.00 1,133.00 1,133.00 1,133.00 1,134.00 1,175.00 1,136.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00 1,175.00	173. 39 55. 39 93. 1.4 4 60. 51. 72 85. 77 86. 52 7 65. 65. 92 95. 86. 82 96. 85. 99 66. 82 96. 85. 86. 86. 86. 86. 86. 86. 86. 86. 86. 86	1908.  Jan. 2 4 4 6 6 7 8 8 9 9 111 116 16 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17	7311 7313 7379 7380 7410 7492 7594 7595 7657 7658 7820 7821 8156 8158 8373 8944 9175 8966 8943 9942 10023 10116 10117 10287 10287 10287 10287 10287 10265 10656 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765 10765	57, 674 26, 054 26, 058 27, 388 27, 388 27, 388 27, 102 25, 671 27, 104 27, 104 27, 104 27, 104 27, 104 27, 104 27, 104 28, 103 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 202 28, 20	1,182.00 1,171.00 1,171.00 1,171.00 1,171.00 1,171.00 1,171.00 1,171.00 1,171.00 1,171.00 1,183.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,180.00 1,1	96. 12 96. 12 96. 12 96. 12 96. 12 96. 12 91. 22 91. 22 91. 22 91. 22 91. 22 92. 07 92. 07 92. 07 92. 07 93. 02 94. 22 95. 12 96. 12 97. 22 97. 79 98. 88 99. 12 99. 12

CHEMICAL PULP, UNBLEACHED-Continued.

Dat	ъ.	Entry No.	Quantity.	Value.	Duty.	Date.	Entry No.	Quantity.	Value.	Duty.
190	8.		Pounds.			1908.		Pounds.		
Mar.		11074	36, 448	\$606.00	\$60.75	Apr. 24	11968	36, 120	\$722.00	\$60.20
	21	11086	182, 884	3,041.00	304. 81	25	12011	55, 241	1, 132. 00	92.07
	23	11106	37, 666	605, 00	62. 78	27	12075	54,812	1,178.00	91. 35
	24	11138	54, 954	1,099.00	91, 59	May 1	12210	60,044	1,291.00	100.07
	24	11139	54, 526	1,091.00	90. 88	1	12215	36,702	616,00	61, 17
	25	11160	30, 137	635, 00	60. 23	2	12239	54,954	1,099.00	91.59
	28	11219	55, 384	1, 127, 00	92. 31	5	12310	55,384	1, 135. 00	92. 31
	28	11220	54, 812	1,056.00	91. 35	š	12398	54,669	1,093.00	91, 12
	28	11221	54, 812	1,096.00	91. 35	12	12483	54,954	1,182.00	91. 50
	28	11222	54, 320	1, 114, 00	90, 53	12	12484	37, 488	610.00	62.48
Apr.	ĩ	11304	54,954	1,099.00	91.59	12	12485	85,747	715.00	59.58
p	3	11337	55, 813	1,172.00	93. 02	12	12513	54,954	1,154.00	91.59
	4	11364	59,889	1, 258, 00	99.82	12	12512	60,044	1,261.00	100.07
	اند	11366	30, 256	635.00	50, 43	13	12505	60, 200	1,234.00	100.33
	4	11376	55, 241	1, 132. 00	92.07	14	12549	41,922	838.00	69. 87
	6	11412	55, 241	1, 105, 00	92.07	15	12582	42,140	906, 00	70. 23
	6	11413	55,098	1, 185, 00	91. 83	18	12667	87,710	773.00	62.85
	ıĭ	11546	56, 243	1, 209, 60	93. 74	18	12668	35,653	713.00	59, 42
	ii.	11547	55,813	1, 200, 00	93. 02	23	12819	55,957	1, 175. 00	93. 26
	13	11590	56,816	1, 165, 00	94.69	23	12820	55,384	1,108.00	92.31
	13	11622	109, 481	2, 190, 00	182, 47	23	12821	55, 241	1, 132, 00	92.07
	13	11623	55,098	1, 102, 00	91. 83	23	12822	54,954	1.154.00	91. 59
	13	11624	54,526	1,091.00	90. 88	25	12850	55,384	1,191.00	92. 31
	18	11778	54, 382	1,088.00	90. 64	25	12851	54,812	1,096,00	91.35
	20	11793	74, 397	1,251.00	124.00	25	12853	36, 213	724.00	60.36
	20	11794	65,384	1, 135, 00	92.31	29	12959	148, 313	2, 494, 00	247. 19
	20	11816	55,671	1, 197, 00	92.79	29	12960	59, 422	1, 188, 00	99.04
	20	11817	54, 382	1, 169. 00	90. 64	29	12961	55,671	1,141.00	92.79
	22	11883	75,356	1,269.00	125. 59	29	12961	55,528	1,166.00	92.55
	23	11946	54,954	1, 265, 00	91.59	29	12963	54, 812	1,178.00	91. 35
	24	11946	55,957	1, 147, 00	93. 26	29	12903	01,012	1,170.00	71. 30
	24	11966	54, 526	1,145.00	90. 88	Grand	otal	41, 588, 609	824, 323, 00	70,021.35
	24	11900	01, 320	1,140.00	<b>#</b> 0. 88	Urana i	WHAL	11,000,009	027, 020.00	10,021.33

No importations during the period from January 1, 1907, to June 1, 1908, of filter masse or filter stock under paragraph 395 of the tariff act of 1897.

Importations of glazed paper from Germany at Bangor, Me., from January 1, 1907, to June 1, 1908.

Date.	Entry No.	Quantity.	Value.	Duty.
February 14. 1907. February 15.	9, 187 9, 260	Bales. 17 19	\$361. 00 407. 00	<b>\$9</b> 0. <b>25</b> 101. <b>75</b>
Total		36	768. 00	192.00

Importations of pulp wood at Bangor, Me., from January 1, 1907, to June 1, 1908.

From—	Date.	Entry. No.	Quantity.	Value.	Duty.
			Cords.		
New Brunswick		6579	12	<b>\$36.00</b>	Free.
Do		6580	12	36.00	Free.
Do			12	36.00	Free.
Do		6582	12	36, 00	Free.
Do		6605	12	36.00	Free.
Do		6606	12	38.00	Free.
Do	Jan. 4.1097	6672	12	26,00	Free.
Do		6788	- 12	36, 00	Free.
Do		6789	12	26.00	Free.
Do		6845	10	30.00	Free.
Do		6846	12	36.00	Freb.
Do	Ian 0 1007	6932	15	45.00	Free.
Do		6933	12	30.00	Free

Importations of pulp wood at Bangor, Me., from January 1, 1907, to June 1, 1908—Continued.

From	Date.	Entry No.	Quantity.	Value.	Duty
_			Cords.		
w Brunswick	. Jan. 10, 1907	7027 7028	10 10	\$30.00 30.00	Free.
Do		7057	10	86.00	Free.
Do	do	7058	10	40.00	Free.
Do		7121 7122	10 12	30.00 36.00	Free.
Do.		7123	10	30.00	Free. Free.
Do	. Jan. 12, 1907	7163	13	39.00	Free.
Do Do		7202	10 12	30.00	Free.
Do		7203 7307	164	36.00 58.00	Free.
Do	do	7308	16 <del>1</del> 16 <u>1</u>	58.00	Free.
Do		7309	12	36.00	Free.
Do		7310 7347	12 10	36.00 30.00	Free.
Do		7348	ii	33.00	Free.
Do	. Jan. 16, 1907	7395	10	30.00	Free.
Do		7396	10	33.00	Free.
Do		7460 7518	12 12	36, 00 38, 00	Free.
Do	do	7550	19	95.00	Free.
<u>Do</u>		7618	10	50.00	Frec.
Do		7747 7748	12 12	36.00 36.00	Free.
Do		7749	10	44.00	Free.
<u>D</u> o	do	7790	10	30.00	Free.
Do		7808 7846	11	33.00 33.00	Free.
Do	do	7847	11 11	33.00	Free.
Do	do	7848	îî	33.00	Free.
Do	. do	7860	11	38.00	Free.
Do		7970 7971	10 10	30. 00 30. 00	Free.
Do		7972	12	36.00	Free.
Do	. Jan. 26, 1907	8145	12	36.00	Free.
Do	do	8146	12	30.00	Free.
Do		8180 8181	12 12	36. 00 36. 00	Free.
Do		8246	12	36.00	Free.
Do	. do	8247	12	36.00	Free.
Do		8248 8249	10 <u>1</u> 10 <u>1</u>	33. 00 33. 00	Free.
Do	do	8250	102	40.00	Free.
Do	. Jan. 30, 1907	8349	12	36.00	Free.
Do	do	8350	12 {	36.00	Free.
Do Do	Jan. 31, 1907	8351 8426	12 11	36.00 33.00	Free.
Do	do	8427	ii !	33.00	Free.
Do		8495	10	45.00	Free.
Do Do	Feb. 2, 1907	8566 8567	11 11	33. 00 33. 00	Free. Free.
Do	do	8568	ii	33.00	Free.
Do	do	8659	ii	33.00	Free.
Do	. Feb. 7,1907	8752	11	33.00	Free.
Do		8977 8978	16 12	50.00 36.00	Free. Free
Do	do	8979	12	36.00	Free.
Do		8980	11	33.00	Free.
Do	Feb. 11,1907 Feb. 12,1907	9065 9151	10 11	50.00 33.00	Free.
Do	do	9153	ii	33.00	Free.
Do	. Feb. 13, 1907	9180	12	36.00	Free.
Do		9244	16	48.00	Free.
Do	Feb. 16, 1907	9253 9423	16 12	48.00 42.00	Free.
Do	Feb. 18, 1907	9467	12	36.00	Free.
Do	do	9468	11	33.00	Free.
Do	. Feb. 20, 1907	9642 9696	11 11	33.00	Free.
Do	Feb. 21, 1907 Feb. 22, 1907	9735	ii (	83. 00 83. 00	Free.
Do	. Feb. 23, 1907	9757	11	83.00	Free.
ebec	. dø	9779	9	36.00	Free.
Do. w Brunswick	. Feb. 26, 1907	9781 9865	18 11	72.00 33.00	Free.
Do	do	9866	13	40.00	Free.
Do	Feb. 27, 1907	9895	9	26.00	Free.
Do	. Feb. 28, 1907	9902	11	45.00	Free.
Do	de	9903 9904	11 13	23.00 29.00	Free.
Do	do	9905	15	45.00	Free.
Do		9906	11	83, 00	

Importations of pulp wood at Bangor, Me., from January 1, 1907, to June 1, 1908—Continued.

From—	Date.	Entry No.	Quantity.	Value.	Du
			Cords.		
uebecew Brunswick	Feb. 28,1907 Mar. 2,1907	9994 10019	9 10	\$36.00 40.00	Fre
Do.	Mar. 2,1907 Mar. 4,1907	10016	15	45.00	Fre
Do. Do.	l do	10047	12	36.00	Fre
Do	do	10048	12	36, 00	Fre
Do	jdo	10049	12	36.00	Fre
Do	do Mar. 6, 1907	10065 10100	10 12	40.00 36.00	Fre
Do	do	10101	14	42.00	Fre
Do	do	10133	13 12	39.00	Fre
Do	do	10134	12	40.00	Fre
Do	Mar. 11, 1907	10244	11	33.00	Fre
Do	l QO	10245	10	40.00	Fre
Do	do Mar. 12, 1907	10246 10263	16 <u>1</u> 11	50. 00 33. 00	Fre
Dο	Mar 12 1007	10280	12	35.00	Fre
uebecew Brunswick	do	10292	10	40.00	Fre
ew Brunswick	do Mar. 14, 1907	10315	53 10	150.00	Fre
uebec	do	10324	10	50.00	Fre
Do	Mar. 15, 1907	10346	10	40.00	Fre
ew Brunswick Do	Mar. 10, 1907	10379	12 12	38.00	Fre
Do	Mar. 10, 1907	10396 10511	14	48.00 46.00	Fre
Do	do., 1501	10612	143	45.00	Fre
Do	Mar. 25, 1907	10589	14 12	35.00	Fre
Do	do. Mar. 25, 1907 Mar. 26, 1907	10611	12 12	38.00	Fre
Douebecew Brunswick	do	10612	12	36.00	Fre
UBDBC	Mar. 27, 1907	10669 10690	9 15	45.00 45.00	Fre
Do	do	10090	10	65.00	Fre
Bo	do	10698	18 12 12 12	38.00	Fre
Do	Mar. 29.1907	10728	12	36.00	Fre
<u>D</u> o	ao	10729	12	35.00	Fre
Do	do	10730	11	33.00	Pre
uebecew Brunswick	qo	10743 10765	9 45	45. 00 225. 00	Fre
		10766	18	90.00	Fre
Do	do	10767	9	45.00	Fre
Do	Apr. 1, 1907	10788	10 12	83.00	Fre
Do	do	10790	12	35.00	Fre
Do	Apr. 2, 1907	10828	11	33.00	Fre
Do	do	10829 10830	12 14	26.00 42.00	Fre
		10831	15	45.00	Fre
Do	do	10832	14	42.00	Fre
Do	do Apr. 6, 1907	10833	10	40.00	Fre
Do	Apr. 6, 1907	10944	12	36.00	
Do	do	10945 10946	15	45.00 33.00	Fre
Do Do	do	10947	11	45.00	Fre
Do	Apr. 8,1907	10970	15 13	39.00	Fre
Do	do	11012	īž	38,00	Fre
<u>D</u> o	do	11037	12 12 11	36.00	Fre
Do	1 40	11040	11	33.00	Fre
Do	Apr. 10 1007	11041 11081	11 12	83.00 88.00	Fre
Do	doApr. 10.1907 Apr. 12,1907	11144	13	39.00	Fre
Do	.do	11145	16	48.00	Fre
Do. Do.	do	11146	11	33.00	Fre
Do	do	11147	11 12 12	33.00 36.00	Fre
Do		11148	12	26.00 26.00	Fre
Do	Apr 13 1907	11179	12	36.00	Fre
Do	do	11180	15	45.00	Fre
Do	'do	11181	12 13	36.00	Fre
Do	do	11182	13	39.00	Fre
Do	do	11183	15 13	45.00 39.00	Fre
Do	do	11213	18	90.00	Fre
Th-	4	11014	18	90.00	Fre
Do	do	11215	45 18	225.00	Fre
Do	do	11216	18	90.00	Fre
Do	ldo	11217	9	45.00	Fre
Do		11218 11230	9 10	45.00 80.00	Fre
Do	40	11001	11	33.00	Fre
Do	do	11232	12	36.00	Fre
Do	Apr. 17, 1907	11334	11 11	33, 00	Fre
T)A	- 40	11335	11	33.00	Pre

Importations of pulp wood at Bangor, Me., from January 1, 1907, to June 1, 1908—Continued.

From—	Date.	Entry	Quantity.	Value.	Duty.
		No.			
New Brunswick	Apr. 17, 1907	11337	Cords.	\$42.00	Free.
Do Do Do	ldo	11338	14	42.00 117.00	Free.
Do	do	11339 11341	39 14	117.00 42.00	Free.
Do	1 40	11342	10	30.00	Free.
Do Do	Apr. 18, 1907 Apr. 19, 1907 Apr. 20, 1907	11343 11399	10	30.00	Free.
Do	Apr. 18, 1907	11435	10 15	30.00 45.00	Free.
Do Do	Apr. 20, 1907	11481	13 86	39.00	Free.
Do	do	11505 11508	36	108.00	Free.
100	1 40	11509	18 13	89.00 89.00	Free.
Do Do	do Apr. 22,1907	11571	13	39.00	Free.
Do	do	11572 11573	13 10 20 30 10 12 12	39.00 33.00	Free.
Do	do	11576	20	65.00	Free.
Do Do	do	11577	30	65. 00 120. 00	Free.
Do	Apr. 23, 1907	11578 11618	10	20.00 38.00	Free.
Do	Apr. 23, 1907	11621	12	36.00	Free.
Do. Do.	do	11625	40	130.00	Free.
Do	3.7	11629 11630	40 13 18 10	<b>39.00</b> <b>39.00</b>	Free.
Do	dodo	11631	10	83.00	Free.
Do	do	11632	14	42.00	Free.
Do	do	11633	10 50 10	40.00	Free.
Do	do	11634 11635	10	163.00 33.00	Free.
Do Do	do Apr. 24,1907 do	11658	121	45.00 50.00	Free.
Do	do	11659	121 141 12	<b>50.00</b>	Free.
Do	do	11660 11661	12	36. 00 36. 00	Free.
Do	do	11662	10 10	83.00	Free.
		11663	10	83. 00 83. 00	Free.
Do	do	11664 11665	15 12 72	45.00 88.00	Free.
Quebec	do	11679	72	<b>860.00</b>	Free.
Do	do	11680	63 63	315.00	Free.
Do	do	11681 11682	63	315.00 225.00	Free.
		11683	45 27	225.00 135.00	Free.
New Brunswick Do Do	Apr. 25, 1907	11709	10	40.00	Free.
Do	do	11710 11711	10 18	40.00 89.00	Free.
		11712	13 10	89.00 40.00	Free.
Do	do	11713	10	40.00	Free.
Do	do	11714 11715	11 13	33.00 39.00	Free.
		11716	13 13	39.00	Free.
Do	do	11717	11 11 11 10	83.00	Free.
		11718 11719	11	83. 00 83. 00	Free.
Do	do	11720	10	40.00	Free.
Do	do	11721 11722	10 11	40.00 33.00	Free.
Quebec	do	11745	9	45.00	Free.
Quebec. New Brunswick Do. Do.	Apr. 27, 1907	11803	10	30.00	Free.
Do	do	11804 11808	10 70 12 12	40. 00 280. 00	Free.
Do	do	11809	12	36.00	Free.
Do	do	11810	12	36, 00	Free.
		11811 11844	10	40.00 83.00	Free.
Do	dodododododododo	11849	10 11 40 19 11	160,00	Free.
Do	do	11850	19	40.00 83.00	Free.
Do	do	11851 11852	11	40.00	Free.
Do	do	11885	îi	33, 00	Free.
Do	do	11887	11	83.00	Free.
Do	do	11888 11889	11	83. 00 33. 00	Free.
Do	doApr. 30, 1907 May 1, 1907	11920	îî	33. 00 33. 00	Free.
Do	May 1, 1907	11979 11980	10	33.00	Free.
Do	l	11980	10	40.00 40.00	Free.
Do	do	11982	11 11 11 11 11 10 10 10	40.00	Free.
Do	do	11983 11984	10 45	40.00 180.00	Free.
Do	do	11985	12	40.00	Free.
Do	do	11986	11	88.00	Free.

Importations of pulp wood at Bangor, Me., from January 1, 1907, to June 1, 1908—Continued.

From—	Date.	Entry No.	Quantity.	Value.	Dut
			Cords.		
ew Brunswick	May 1,1907	11987 11988	10	\$40.00	Free
Do	do	11989	10 11	40.00 33.00	Free
Do	do	11990	10	40.00	Free
Do	do May 2, 1907	11991	10	40.00	Free
Do	May 2, 1907	12019	10	40.00	Free
Do	do	12020 12021	11 12	33.00 36.00	Free
Do	do	12022	13	39.00	Free
uebecDo	do	12048	36 27 63 54	180.00 135.00	Free
Do	do	12049	27	135.00	Free
Do	dodo	12050 12051	63	315.00	Free
Do Do	do	12052	45	270.00 225.00	Free
Do Do Do Do Do Do Do Do Do Do Do Do Do D	do	12053	45 36	180.00	Free
sw Brunswick	do May 3, 1907	12040	10	40.00	Free
Do	May 6, 1907	12041	13	39.00	Free
Do	May 6, 1907	12161 12194	10 10	40.00 40.00	Free
Do	May 7, 1907	12195	10	33.00	Free
Do Do	do	12198	1 10	40.00	Free
Do	do	12199	10 10	40.00	Free
Do	do	12200	10	40.00	Free
Do	do	12201	10	40.00	Free
Do	do	12202 12203	12 13	36. 00 39. 00	Free
		12276	18	90.00	Free
Do Do	May 9, 1907	12277	1 10	40.00	Free
Dο	do	12278	10 10	49.00	Free
Do	do	12279	20 20 18 13	100.00	Free
Do	do	12280	20	80.00	Free
Do	May 10 1007	12281 12315	18	90.00 89.00	Free
Do	do	12316	13	39.00	Free
Do.	ldo	12217	10	33.00	Free
DO	ao	12318	10 14	56.00	Free
Do	do	12320	10	40.00	Free
Do	do	12321 12322	13	39.00 36.00	Free
lebec	do	12332	12 10	50.00	Free
Do	do	12333	18	90,00	Free
Do	do May 11, 1907 do	12349	12 63	36.00	Free
Do	do	12363	63	315.00	Free
Do	do	12364 12366	54	270.00	Free
DO	do	12366	9	45.00 45.00	Free
Do	May 13, 1907	12382	13	39.00	Free
Do	May 14, 1907	12437	10	33.00	Free
Do	do	12438	10	33.00	Free
Do	do	12439 12441	12	35.00	Free
Do.	do	12441	24 10	72.00 49.00	Free
Do	May 15, 1907	12400	12	26.00	Free
Do	do	12461	12 12	36.00 36.00	Free
Do	. do	12462	10	33.00	Free
Do	May 16, 1907	12493	10	83.00	Free
Do	do	12494 12511	10 10	33.00 33.00	Free
Do	do	12522	10	83.00	Prec
Do	do	12544	10	40.00	Free
Do:	do	12545	10 10	40.00	Free
Do	do	12556	36	180.00	Free
Do Do	do	12557 12558	27 27	135, 00 135, 00	Free
Do	do	12550	10	49.00	Free
Do	do May 18, 1907	12571	10	23.00	Free
Do	do	12573	11 11	33, 00	Free
Do	do	12574	11	33.00	Free
BERT		12678 12587	27 11	135.00	Free
ieloc w Brunswick Do	do	12637	10	35.00 40.00	Free
Do .	do	12637 12638	10 10	83.00	Free
Do Do	do	12639	10	33, 00	Prec
Do	do	12640	10	88.00	Free
Do	May 21, 1907	12669	15 12	45.00	Free
Do	do	12662 12663	12	83.00 89.00	Free
Do Do Do	do	12708	18	90.00	Free
Donada	do	12709	10	49.00	Free
	1 30	12695	l ii l	83.00	Free

Importations of pulp wood at Bangor, Me., from January 1, 1907, to June 1, 1908—Continued.

From—	Date.	Entry No.	Quantity.	Value.	Dut
			Cords.		
lew Brunswick	May 22, 1907	12696 12697	14 11	\$42.00	Free
Do	dodo	12097	10	33.00 40.00	Free
Do		12011	10	49, 00	Free
Do	May 23, 1907	12734	10	39.00	Free
<u>D</u> o	do	12790	63 27 50 11	315, 00	Free
Do Do	[.] <b></b>	12791	27	135. 00 163. 00	Free
Do	May 24, 1907	12750 12811	50	33.00	Free
Do	do	12812	îi	33.00	Free
Do	do	1 12813	12	36.00	Free
<u>Do</u>	May 27, 1907	12847	12 12 13	35.00	Free
Do	do	12848	13	40.00	Free
uebec	May 28, 1907	12938 12939	45 9	225.00	Free
Do	Mar 29 1007	12939	9	45.00 45.00	Free Free
Do	do	12941	9	45. 00	Free
Doew Brunswick	May 29, 1907	12032	12	38 00	Free
Do	May 30, 1907	12957	12	38.00	Free
Do	do	12958	11	23.00	Free
Do	do May 31, 1907 June 3, 1907	12959	11 15	83.00	Free
	May 31, 1907	12989	15	45.00	Free
Do	1000 3, 1907	13079 13080	10 10	83. 00 83. 00	Free
Do.	June 4,1907	13113	11	33.00	Free
Do	l	13114	11 11	33, 00	Free
16bec	ملة ا	13115	12	43. 00 161. 00	Free
Do	June 5, 1907	13160	46 27 45	161. 00	Free
Do	do	13174	27	135, 00 225, 00	Free
Do	do	13175 13176	45 36	180, 00	Free
Do	do	13177	36	180.00	Free
Do	do	13178	18	90.00	Free
Do	do	13179	9	45, 00	Free
Do	do,	13180	9	45. 00	Free
Do anada uebec	June 6, 1907`	13213	10	30.00	Free
Uebec	do	13237	36	180.00	Free
Do	do	13238 13239	18 36	90. 00 180. 00	Free
Do	June 7 1907	13240	36	180.00	Free
Do	ا مام	13283	14	49.00	Free
nnadaew Brunswick	do	13285	10	30.00	Free
ew Brunswick	June 8, 1907	13329	13 13 10	39.00	Free
Do	do	13330	13	39.00	Free
Do. Do.	do	13331 13399	45	33. 00 225. 00	Free
Do	do	13400	36	180.00	Free
Do	do	13401	18	90.00	Free
Do.	1 4-	13402	9	45.00	Free
Do Do	June 10, 1907 June 11, 1907	13403	9	45.00	Free
Do	June 10, 1907	13376	13	46.00	Free
Do	June 11, 1907	13427	11	33.00	Free
Do	dodo	13435 13436	9	45. 00 45. 00	Free
Do	dodo	13437	18	90.00	Free
anada ow Brunswick Do	June 12, 1907 June 13, 1907 June 14, 1907	13464	12	36, 00	Free
sw Brunswick	June 13, 1907	13492	14	49.00	Free
Do	June 14, 1907	13539	15	45.00	Free
zebec		13540	30 18	105.00	Free
Do Do	dodo	13606 13607	18	90.00 90.00	Free
Do	do	13608	18	90.00	Free
Do	do	13609		<b>45</b> . 00	Free
Do	do	13610	9	45.00	Free
Do		13611		45, 00	Free
Do		13612	54 12	270.00	Free
Do	June 20, 1907 June 22, 1907	13748 13881	12	42.00 35.00	Free
Do	dodo	13883	12	36.00	Free
sw Brunswick	June 26, 1907	14040	ii	83.00	Free
Do	June 29, 1907	14134	12	42,00	Free
Do		298	10	85.00	Free
uebec	July 10, 1907	842	20	98.00	Free
Do		543 544	40	240.00	Free
Do. ew Brunswick	do	575	12 13 11 12 10 20 40 30	180.00 42.00	Free
Do	Tester 90 1007	644	1 12	26.00	Free
Do	July 18, 1907 July 20, 1907	645	12	36.00	Free
Do	do	646	14	42.00	Fre
	1 - 1 - 1	714	80	180.00	Fre

Importations of pulp wood at Bangor, Me., from January 1, 1907, to June 1, 1908—Continued.

From—	Date.	Entry No.	Quantity.	Value.	Dut
	•		Cords.		
lew_Brunswick	July 23, 1907 July 24, 1907	736	12	\$36.00	Free
Do	July 24, 1907	765 780	12 30	36.00 180.00	Free
uebec. iew Brunswick	do	795	13	39.00	Free
Do	July 25, 1907 July 27, 1907 July 29, 1907	795 890	10	39.00 30.00	Free
Do	July 29, 1907	917	14	40.00	Free
Do Do	do	918	13	39.00	Free
<u>D</u> o	July 30, 1907 July 31, 1907	919 959	.8	25.00	Free
Do	July 30, 1907	959	15 40	30.00	Free
uelec. lew Brunswick. Do.	July 31, 1907	997 998	10	240.00	Free
Do Douiswick	do	999	10	60.00 60.00	Free
Do	do Aug. 1,1907	1015	15	45.00	Prec
Do	Aug. 2,1907	1042	15	45.00	Free
Do	ldo	1051	10	40.00	Free
Do	Aug. 3, 1907	1052	10 10	40.00	Free
. Do	Aug. 3, 1907	1084	10	40.00	Free
Do	do	1103	30	180.00	Free
Do	do	1104	10	60.00	Free
Do	do	1105	10	60.00	Fre
Do Do	do	1106 1107	10 10	60.00 60.00	Fre
Do	do	1108	20	120.00	Fre
Do	Aug. 5, 1907	1139	48	144.00	Fre
Do	do	1140	12	26.00	Fre
Do		1141	12	26.00 26.00	Fre
Do	do	1157	15	45.00	Fre
Do	Aug. 7, 1907	1224	16	48, 00	Fre
Do	Aug. 8, 1907	1245	26 13	144.00 39.00	Fre
<u>D</u> o	do Aug. 9, 1907	1247	13	39.00	Fre
Do	Aug. 9, 1907	1310	60	288.00	Fre
Do	do	1311		144.00	Fre
Do	do	1313	36 36 12	144.00 144.00 39.00	Fre
D0	Aug. 10, 1907	1314 1841	12	192.00	Fre
Do	Aug. 10, 1007	1369	48 48	192.00	Fre
Do	Aug 13, 1907	1419	12	48.00	Fre
Do	do	1420	12 12	48.00	Fre
Do	Aug. 14, 1907	1450	48	192, 00	Fre
Do	Aug. 12, 1907 Aug. 13, 1907 do Aug. 14, 1907 Aug. 15, 1907	1481	48	192,00	Fre
Do	do Aug. 16, 1907	1483 1510	11 12	\$3.00 48.00	Fre
Do	Aug. 16, 1907	1510	12	48.00	Fre
<u>D</u> o	do	1511	12	48.00	Fre
Do	Aug. 17, 1907	1533	12	48.00	Fre
Do	qo	1542	10 10	60. 00 60. 00	Fre
Do	do	15 <b>43</b> 15 <b>44</b>	10	60.00	Fre
Do	Aug. 22, 1907 Aug. 23, 1907 Aug. 24, 1907	1677	12	36.00	Fre
Do	Aug. 23, 1907	1707	96	384.00	Fre
Do	Aug. 24, 1907	1743	96 48	384.00 192.00	Fre
Do	Aug. 26, 1907	1780	11	33, 00	Fre
Do		1790	11 36 36 72	144.00	Fre
Do	do	1791	36	144.00	Fre
<u>D</u> o	Aug. 27, 1907 Aug. 29, 1907 Aug. 30, 1907	1814	72	288, 00	Fre
Do	Aug. 29, 1907	1873	60 36	240.00	Fre
Do	Aug. 30, 1907	1901	36	144.00	Fre
Do Do.	do	1902	48	192.00	Fre
Do	Aug. 31, 1907 Sept. 2, 1907	1927 1961	12 12	48.00 48.00	Fre
Do	do do	1962	12	48.00	Fre
Do	do Sept. 3, 1907	2006	12	48.00	Fre
Do	do	2007	12	46,00	Fre
Do	do Sept. 4,1907	2025	12 12	48.00	Fre
Do	l do	2026	1 19 1	48,00	Fre
Do	Sept. 5,1907 Sept. 7,1907 Sept. 9,1907	2049	. 60 12	192, 00	Fre
Do	Sept. 7,1907	2118	. 60	240.00 48.00	Fre
Do	Sept. 9,1907	2157	12	48.00	Fre
<u>D</u> o	l <b>QO</b>	2158	12	48.00	Fre
Do	do	2166	60	240.00	Fre
Do	Sept. 11,1907	2226 2227	13	39.00 39.00	Fre
Do	do	2227	13	144.00	Fre
Do	Sept. 13, 1907	2264	12 60 13 13 86 12	48.00	Fre
Do	Sept. 14, 1907	2288	1 12	30.00	Fre
Do.	do	2299	13 13	39.00 39.00	Fre
Do	do	2290	12	48.00	Fre
Do	Sept. 16, 1907	2325	10	89.00	Fre
taebec	do	2326	اقتا	40.00	Pre

Importations of pulp wood at Bangor, Me., from January 1, 1907, to June 1, 1908—Continued.

From	Date.	Entry No.	Quantity.	Value.	Duty.
			Cords.		
New Brunswick	Sept. 16, 1907 Sept. 17, 1907 do	2827	48	\$192.00	Free.
Do	Sept. 17, 1907	2378 2381	20 12	80. 00 48. 00	Free.
Do	l do .	2382	12	48.00	Free.
Do	Sept. 18,1907 Sept. 21,1907 Sept. 23,1907	2410 2501	10	30, 00	Free.
<u>D</u> o	Sept. 21, 1907	2501	10	40.00 40.00	Free.
Do	Sept. 28, 1907	2643 2615	10 10 12 12	40.00	Free.
Do	Sept. 25, 1907 Sept. 27, 1907	2680	12	40.00 40.00	Free.
Do	do	2681	12 12 12 12 12 12 12 12 12 40 12	40.00 38.00	Free.
Do	Sept. 28, 1907 do Sept. 30, 1907 do Oct. 1, 1907 Oct. 2, 1907	2707	12	38.00	Free.
Do	Sept. 30, 1907	2709 2761	12	40.00 40.00	Free.
Do	do	2762	12	40.00	Free.
Do	Oct. 1,1907	2793	12	40.00	Free.
Do	Oct. 2, 1907	2842	12	40.00	Free.
Do	Oct. 4.1907	2843 2907	12	86. 00 40. 00	Free.
Do	Oct. 5,1907	2038	40	160.00	Free.
Do	Oct. 7,1907	2978	12	160.00 40.00	Free.
Do.,		3022 3023	12	40,00	Free.
Do Do	Oct. 8,1907 do Oct. 9,1907 Oct. 18,1907	3055	12	40.00	Free.
/ Do	Oct. 18,1907	3369	12	40.00 48.00	Free.
Do	do	3370	12 12 12 12 12 12 12 12	48.00 l	Free.
Do	Oct. 24,1907	3397	12	36.00 36.00	Free.
Do. Quebec New Brunswick	do	3630 3631	12	40.00	Free.
New Brunswick		3675	12	60.00	Free.
Do	Oct. 26,1907 Oct. 30,1907 do Nov. 4,1907 Nov. 8,1907	3725	10	40.00	Free.
Onehen	Oct. 30,1907	3911 3912	10 10 10 12	40.00	Free.
Do	Nov. 4.1907	4115	10	40.00 40.00	Free.
Do	Nov. 8,1907	4328	12	48.00	Free.
Do	do	4329	12	48.00 48.00	Free.
Do	Nov. 11,1907 Nov. 12,1907	4442 4513	11	48.00	Free.
Quebec. New Brunswick Do. Do.	Nov. 13,1907	4582	12 11 12 10	38.00 25.00	Free.
Do	do	4583	10	40.00	Free.
Do	do	4607	10	<b>80</b> . 00 <b>80</b> . 00	Free.
Do	Nov. 16, 1907	4774 4775	10 10 12	30.00	Free.
Do	Nov. 23, 1907	5142	12	36.00 48.00 36.00	Free.
Do	Nov. 23,1907 Nov. 26,1907 Nov. 28,1907	5284	12	86.00	Free.
Do	Nov. 28,1907	5408	10	30.00	Free.
Do	Nov. 30,1907 Dec. 4,1907	5495 5644	10	80.00 48.00	Free.
Do	Dec. 5.1907	5704	ii	44.00	Free.
Do	Dec. 6,1907	8744	12	48.00	Free.
<u>D</u> o	Dec. 9,1907	5886	20	60.00	Free.
Do	Dec. 11,1907 Dec. 14,1907	6887 6048	20	60. 00 48. 00	Free.
Do	Dec. 14.1907	6170	ii	44.00	Free.
Do	Dec. 16,1907	6270	12	48.00 48.00	Free.
Do	do	6271 6293	12	48 00	Free'
Do	Dec. 21,1907 Dec. 23,1907	6648	10	30.00 30.00	Free.
Do.	Dec. 23,1907	6822	10	40.00	Free.
<u>Do</u>	Dec. 24,1907 Dec. 25,1907	6843	12	48.00	Free.
Do	Dec. 25,1907	6881 6882	13	89. 00 86. 00 89. 00	Free.
Do	40	6883	12	30.00 30.00	Free.
Do	Dec 97 1007	7056	12	48.00	Free.
Do	do	7070	18	90.00	Free.
Do	Dec. 30,1907	7180 7181	12	36.00 48.00	Free.
Do	Dec. 30,1907do Dec. 31,1907	7209	212222122222222222222222222222222222222	48.00	Free.
Do		7210	12	25, 00	Free.
Do	Jan. 1,1908	7248	11	33.00 120.00	Free.
Do	Ten 2 1000	7258 7322	20	120.00 38.00	Free.
Quebec	Jan. 1,1908 do do Jan. 2,1908 Jan. 3,1908	7355	10	40.00	Free.
Do. Quebec. New Brunswick.	do	7356	ii	88.00 80.00	Free.
D _A	Jan. 6.1908	7432	10	30.00	Free.
Quedet	do	7433 7435	10 10	40.00	Free.
Quebee. Do New Brunswick. Quebee.	Jan. 8, 1908	7443 7608	10 /	40.00 35.00	Free.
Orehon	Ten 8 1008	7608	l īŏ l	40.00	Free.

Importations of pulp wood at Bangor, Me., from January 1, 1907, to June 1, 1908—Continued.

From-	Date.	Entry No.	Quantity.	Value.	Duty
			Cords.		
New Brunswick	Jan. 8,1908 Jan. 9,1908	7609	13	\$39.00	Free.
Do	Jan. 9,1908	7660	15	60.00	Free.
luebec	do Jan. 10,1908	7714 7775	20 11	100.00 44.00	Free.
Do	Jan. 11.1908	7825	12	48.00	Free
Do	Jan. 11,1908 Jan. 13,1908	7930	ii	44.00	Free.
Do	do	7952	11	44.00	Free.
Do	Jan., 15,1908	8101	11	44.00	Free.
Do	Jan. 16,1906	8102 8167	10 10	35.00 40.00	Free.
luebec.	do	8173	11	44.00	Free.
Do	l do	8174	15	60 00	Free.
No.	do	8251	30	180.00	Free
luebec. New Brunswick. Do.	Jan. 17,1908	8239	10	40.00	Free.
lew Brunswick	Jan. 18,1908	8309	11	44.00 44.00	Free.
Do	l <b></b>	8310	11	44.00	Free.
100	1841. 20.1905	8387	12	48.00	Free.
luebec.	do	8388 8390	10 10	40.00 40.00	Free.
Do		8483	10	40.00	Free.
Do	Jan. 21,1800	8484	11	33.00	Free
Do	Jan. 22,1908	8603	îô	30.00	Free
Inches		8604	10	40.00	Free
Do	do	8618	30	180.00	Free.
Do	do	8619	50	300,00	Free.
Do		8620	40 30	240.00 180.00	Free.
Do	do	8621	30	180.00	Free
Do	do	8622 8636	20 39 13	120.00	Free
New Brunswick	Jan. 23,1908	8712	12	156, 00 52, 00	Free
Do	Jan. 23,1908 Jan. 24,1908 Jan. 25,1908	8807	ii	44.00	Fres
Do	1 00	8808	13	52.00	Free
Do	do Jan. 27,1908	8870	12	36.00	Free
Do	ao	8871	12	36, 00	Free
Do	l do	8872	11	33.00	Fres
luebec.	. <u>.</u> do	8873	10	40.00	Free
lew Brunswick	Jan. 28,1908	8990	12	48.00	Free
Do	do	8991	12	48.00	Free.
Do	do	8992 8993	12 10	48, 00 40, 00	Free
luebec.	do Jan. 30,1908	9082	10	80.00	Free
Do	do	9083	13	52.00	Free
Do	do	9084	13	<b>52.</b> 00	Free
Do	do	9085	10	30.00	Free
Do		9092	10	30.00	Free
Do	do	9093	11	33.00	Free
Do	do	9094	16	48.00	Free
Do	do	9095 9096	13 13	52.00 52.00	Free
Do	do	9097	10	40.00	Free.
uebec		9098	11	44.00	Free.
New Brunswick	do Feb. 3, 1908	9234	12	48.00	Free
Do	Feb 4.1908	9329	15	60.00	Free
Do	do	9330	11	44.00	Free.
Do	do	9331	11	44, 00	Free
Do	do Feb. 5, 1908	9392	83	132.00	Free.
pebecDo		9394	10	40.00	Free
lew Brunswick	do Feb. 6, 1908	9395 9425	10	40.00 80.00	Free
Do	do	9426	10 13	52.00	Free
Do	do	9433	15	45.00	Free
Do	do	9434	12	26.00	Free
Do	Feb. 8.1908	9550	39	156.00	l'ree.
uebec   w Brunswick	do	9553	10	40.00	Free
lew Brunswick		9554	11	44.00	Free
Do	do	9555	11	44.00	Free
Po	do Feb. 10, 1908	9618	11	44.00	Free
uehec iew Brunswick	do	9674	10	33.00	Free
Do		9875	15	45.00 48.00	Free.
De	40	9676 9677	12 12	48.00 48.00	Free.
Do	do	9678	36	144.00	Free.
uebec	do Feb. 12, 1908	9811	10	40.00	Free
Do	do	9812	10	40.00	Free.
Do	do	9613	12	36.00	Free
10		9814	10	30.00	Free
Do	do	9815	12	48.00	Free
Do Do	do	9816	10	20.00	Free
		9817	10	30.00	Free

Importations of pulp wood at Bangor, Me., from January 1, 1907, to June 1, 1908—Continued.

From—	Date.	Entry No.	Quantity.	Value.	Duty
•			Cords.		
sw Brunswick	Feb. 12,1908	9819	12	\$48.00	Free.
Do Do	do Feb. 13, 1908	9820 9837	· 36	36.00 144.00	Free.
Do	do	9839	10	20.00	Free.
Do	Feb. 14, 1908	9960	10	38.00	Free.
Do	]do	9961	11	44.00	Free.
Do	do	9962	11	44.00	Free.
nebec		9963 9964	10 10	33.00 40.00	Free.
Do	do	9965	12	30.00	Free.
Do	do	9966	11	44.00	Free.
Do	ldo	9967	10	30.00	Free.
Do	do	9968	11	44.00	Free.
Do Do		9969 9970	12 11	48.00 44.00	Free.
Do	Feb. 15, 1908	10017	10	30.00	Free.
Do		10096	14	56.00	Free.
Do		10110	10	40.00	Free.
Do	do	10111	10	30.00	Free.
<u>D</u> o		10112	11	33.00	Free.
Do		10113	45	180.00	Free.
Do		10114 10177	36 12	144.00 36.00	Free.
Do		10178	12	36.00	Free.
Do	Feb. 19.1908	10260	10	40.00	Free.
Do	Feb. 20,1908	10285	12	36.00	Free.
Do		10286	12	36.00	Free.
<u>D</u> o		10287	55 12	220.00	Free.
Do		10288 10310	10	36.00 30.00	Free.
Do	do	10311	16	48.00	Free.
Do		10324	13	39.00	Free.
Do	do	10325	12	36, 00	Free.
Do		10326	11	33.00	Free.
Do	do	10327	13	52.00	Free.
Do Do	do	10328 10329	11 11	44. 00 44. 00	Free.
Do		10411	12	36.00	Free.
Do	do	10412	-9	27.00	Free.
Do	do	10427	11	33.00	Free.
Do		10428	11	36.00	Free
<u>Do.</u>		10429	12	48.00	Free.
Do	do	10430 10438	11 10	44. 00 33. 00	Free.
Do	Feb. 25,1908	10446	48	144.00	Free
Do.	do	10447	1 12	36.00	Free
Do	l do	10448	15	45.00	Free.
Do	do	10449	12	36.00	Free.
Do	l do	10450	10	40.00	Free.
Do		10451 10452	16 12	48.00 36.00	Free.
Do.			12	48.00	Free
Do		10454	13	39.00	Free.
Do	do	10455	11	44.00	Free.
<u>D</u> o		10492	14	42.00	Free
Do		10493	10	20.00 40.00	Free.
Do		10494 10495	10 12	36.00	Free.
Do			13	39.00	Free
Do			10	60.00	Free
Do	do	10506	10	60.00	Free
<u>D</u> o		10564	111	44.00	Free
Do		10565 10566	16 12	48. 00 36. 00	Free
Do		10567	12	38.00	Free
Do.		10599	13	39.00	Free
Do	do		11	44.00	Free
nebec	do		10	60.00	Free
Do	do	10607	48	228.00	Free
lew Brunswick Do.		10641 10642	18 15	54.00 45.00	Free.
Do		10674	12	36.00	Free
Do.	do		10	30.00	Free
Do	do	10676	11	33.00	Free.
Do	do	. 10677	12	36.00	Free
Do	do	10678	15	45.00	Free.
Do			12 14	36.00 42.00	Free
Do	do		16	48.00	Free
Do					

Importations of pulp wood at Bangor, Me., from January 1, 1907, to June 1, 1908—Continued.

From—	Date.	Entry No.	Quantity.	Value.	Dut
			Cords.	•	
Brunswick	Mar. 2, 1908	10683 10691	11 12	\$44, 00 36, 00	Free
Do	do	10692	12	36.00	Free
Do		10693	12	36, 00	Free
Do		10694 10708	12 14	26.00 42.00	Free
Do Do		10709	18	54.00	Free
Do	Mar. 4,1908	10727	10	30.00	Free
Do		10728 10733	12 45	36. 00 270. 00	Free
Do	do	10734	36	216.00	Free
Do w Brunswick	do	1 <b>0735</b> 10757	27	162.00	Free
w Brunswick	Mar. 5, 1908	10757 10758	12 10	36.00 30.00	Free
Do	Mar. 6, 1908	10778	12	36.00	Free
Do	. do	10779	15	45, 00	Free
uebecsw Brunswick	Mar. 7, 1908	10799	11	44.00	Free
BW Brunswick	Mar. 9,1908	10801 10822	11 11	44. 00 44. 00	Free
uebecew Brunswick	do	10823	16	48.00	Free
Do	. do	10849	11	33.00	Prec
Do	do	10850 10851	11 11	33.00 33.00	Free
Do	l do	10851	11	33.00	Free
uebec sw Brunswick Do	Mar. 10, 1908	10876	20	120, 00	Free
ew Brunswick	do	10877	20	120.00	Free
Do	do	10878 10879	30 50	180.00 200.00	Free
Do	. M. S.T. 11, 1908	10894	11	33.00	Pro
Do	.] <b>d</b> o	10895	11	33.00	Free
Do Do	do	10896 10912	11 11	33.00 33.00	Free
D0	Mar. 13, 1908	10937	15	60.00	Fre
nebecew Brunswick	do	10938	11	33.00	Free
Do	Mar. 14, 1908	10957	11	83. 00	Free
Do	QO	10958 10977	11 11	33.00 33.00	Free
Do	do	10978	ii	83.00	Pre
Do Do	do	10979	11	33, 00	Free
Do	do	10980 11006	11 11	83.00 44.00	Free
Do	do	11007	ii	33.00	Free
Do	do	11008	14	52.00	Free
Do Do	. do	11009 11016	11 11	33.00 33.00	Fre
nehen	do	11024	30	180.00	Free
nebecDo	do	11025	20	120, 00	Free
Do	. do	11026	20	120.00	Fre
Do	do	11027 11028	20 20	120.00 120.00	Fre
Do Do Do Do Do Do Do Do Do Do Do Do Do D	Mar. 18, 1908	11039	ii i	33.00	Free
<u>D</u> o	do	11040	11	38, 00	Free
Do Do	. ao	11041 11042	11 11	33.00 33.00	Fre
Do	do	11043	12	48.00	Fre
Do	do	11044	11	83.00	Free
Do	. do	11068	ü	33.00 83.00	Free
Do	Mar. 20. 1908	11069	11 11	83.00	Fre
D0	.'	11082	ii	83, 00	Fre
<u>D</u> o	do	11083	12	36.00	Fre
Do Do.	. Mar. 21, 1908	11094 11095	11 11	<b>33.</b> 00	Fre
Do	do	11096	ii	83, 00	Fre
Do	.'do	11097	11	<b>33.</b> 00	Fre
Do Do.	do	11098 11099	11 11	33, 00 33, 00	Fre
Do	l do		11	83. 00	Fre
Do	. Mar. 23,1908	11120	11	83.00	Free
Do	.:do	11121	11 11	33. 00 33. 00	Fre
Do	do	11122 11123	11	33.00	Fre
Do	do	11124	11	<b>33.00</b>	Fre
Douebec.	do	11134	11	33, 00	Fre
uebec	. Mar. 24, 1908	11153	30 20	180.00 120.00	Fre
Do	.ido	11155	20	120.00	Fre
Do	do	11156	10	60,00	Fre
Do	Mar. 25, 1908	11157	40 50	940. 00 300. 00	Fre
Do Do	do	11158 11168	11	44.00	Fre
D-		11169	l iil	44.00	1

Importations of pulp wood at Bangor, Me., from January 1, 1907, to June 1, 1908—Continued.

From—	Date.	Entry No.	Quantity.	Value.	Duty
			Cords.		
Vew Brunswick	Mar. 23,1908	11170 11171	11	\$33.00 33.00	Free.
Do	do	11172	-11	83. 00	Free.
Do	do	11173	11	83.00	Free.
Do	Mar. 26, 1908	11189	11 11	33.00	Free.
Do	do	11190	11	33.00	Free.
Do Do		11191 11192	11	33.00 33.00	Free.
Do.	do	11193	11 11	33.00	Free.
Do	do	11194	ii	33.00	Free.
Do. Quebec. New Brunswick.	Mar. 27, 1908	11203	ii	44,00	Free.
lew Brunswick	do	11204	11	33, 00	Free.
<u>D</u> o	do	11213	11	33.00	Free.
Do	qo	11214 11215	10 11	30.00 33.00	Free.
Do	Mar 28 1008	11232	11	33.00	Free.
nepec	do	11245	ii	44.00	Free
luebec lew Brunswick	do	11246	iô	30, 00	Free.
Do	do	11247	11	33, 00	Free.
<u>D</u> o		11248	11	83.00	Free.
Do	do	11249	11	88.00	Free.
Do	do	11250	11	33.00	Free.
Do Do	M.B.F. 31, 1905	11277 11278	11 12	83.00 48.00	Free.
Do	do	11279	ii	\$3.00	Free.
Do Do	do	11280	11	33.00	Free.
tuebec	do	11298	20 30	120.00	Free
Do	do	11299	30	180.00	Free.
<u>D</u> o	do	11300	20	120.00	Free.
Do		11301	20	120.00	Free.
Do	qo	11302	30	180.00	Free.
Do. Jow Brunswick Do.	Apr 1 1000	11303 11311	20 11	120.00 33.00	Free.
Do	do 1, 1900	11312	11	33.00	Free
		11313	ii	33.00	Free
Do	do	11314	ii l	35.00	Free.
<u>D</u> o	Apr. 3, 1908	11348	11	33.00	Free.
Do	do	11349	11	33.00	Free.
Do	do	11350	11	33.00	Free.
Do Do	do	11351 11352	11	33.00	Free
Do	do	11352	11	33.00 33.00	Free.
Do	do	11354	ii	44.00	Free
nebec	Apr. 4, 1908	11380	ii	44.00	Free
Do nebec w Brunswick	do	11381	ii l	33.00	Free
Do	do	11382	11	33.00	Free
Do	do	11383	11	33.00	Free.
Do	do	11384	11	33.00	Free
Do	Apr. 6, 1908	11400 11401	11	33.00	Free.
Do	do	11401	11 11	33. 00 35. 00	Free.
nabec	do	11403	ii	44.00	Free.
Doew Brunswick	do	11404	ii i	44.00	Free
ew_Brunswick	do	11420	36	144.00	Free.
Do	do	11421	11	45, 00	Free.
Do	do	11422	11	33.00	Free.
Do	do	11423	11	33.00	Free
Do	do	11424 11425	11 11	33.00 33.00	Free.
Do	Apr 7 1908	11439	ii	33.00	Free.
		11440	îi	33.00	Free
uebec ew Brunswick Do	do	11441	l ii l	44.00	Free
ew Brunswick	do	11442	11	33.00	Free
Do	Apr. 8, 1908	11460	11	33.00	Free
Do. Do.	do	11461	11	83.00	Free
Do	ao	11462 11463	11 11	33.00 38.00	Free
Doebec	Apr 0 1008	11495	20	120.00	Free
10	do	11496	40	240.00	Free
Do	do	11497	20	120.00	Free
Do	do	11498	30	180.00	Free
ew Brunswick	Apr. 10, 1908	11523	11	33.00	Free
D0	do	11524	11	83.00	Free.
D0	do	11525	11	83.00	Free
Do	ao	11526	11	33.00 44.00	Free
lew Brunswick	do	11527 11531	11 11	44.00 39.00	Free.
puebec.  ew Brunswick  puebec.  few Brunswick	Apr. 11.1909	11563	11	44.00	Free.
ew Brunswick	do	11564	ii	83.00	Free.
De	do	11565	ii	33.00	Free.
Do	uo		44		
Do	do	11566	11	83.00 88.00	Free

Importations of pulp wood at Bangor, Me., from January 1, 1907, to June 1, 1908—Continued.

w Brunswick	dodododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododo	11568 11569 11601 11602 11603 11604 11615 11627 11646 11705 11705 11706 11707 11708 11709 11714 11753 11759 11761 11811 11811 11811	Cords. 12 12 11 11 11 11 11 11 11 11 11 11 11	\$48.00 48.00 83.00 83.00 83.00 83.00 44.00 83.00 83.00 83.00 83.00 83.00 83.00 83.00 83.00 83.00	Free Free Free Free Free Free Free Free
Do	do	11569 11601 11602 11603 11604 11615 11627 11706 11707 11708 11709 11714 11753 11759 11761 11762 11810 11811	12 11 11 11 11 11 11 12 11 11 11 11 11 1	48.00 33.00 33.00 38.00 44.00 33.00 33.00 33.00 33.00 33.00 33.00 33.00 33.00 33.00 33.00	Free Free Free Free Free Free Free Free
Do	Apr. 13, 1908 do. do. do. do. Apr. 14, 1908 do. do. Apr. 16, 1908 do. do. do. do. Apr. 17, 1908 do. Apr. 20, 1908 do. Apr. 20, 1908	11601 11602 11603 11604 11615 11627 11646 11706 11706 11707 11708 11709 11714 11753 11759 11761 11762 11810 11811	11 11 11 11 11 12 11 11 12 11 11 11 11 1	38. 00 38. 00 44. 00 33. 00 33. 00 33. 00 33. 00 33. 00 33. 00 36. 00 36. 00 37. 00 38. 00 38. 00	Free Free Free Free Free Free Free Free
Do	do	11602 11603 11604 11615 11627 11646 11708 11708 11708 11709 11714 11753 11759 11761 11762 11810 11811 11812	11 11 11 11 11 11 11 11 11 11 11 11 11	83. 00 88. 00 44. 00 33. 00 85. 00 83. 00 83. 00 83. 00 83. 00 86. 00 33. 00 86. 00 33. 00 86. 00 33. 00	Free Free Free Free Free Free Free Free
Do	do	11603 11604 11615 11627 11647 11705 11706 11707 11708 11709 11714 11753 11759 11761 11762 11810 11811 11812	11 11 11 12 12 11 11 12 11 11 11 11 11 1	83.00 84.00 83.00 83.00 83.00 83.00 83.00 83.00 83.00 83.00 80.00 80.00 83.00 83.00 83.00 83.00 83.00	Free Free Free Free Free Free Free Free
Do	do	11604 11615 11627 11646 11647 11706 11707 11708 11709 11714 11753 11759 11761 11762 11810 11811 11812	11 11 11 12 11 11 11 11 11 11 11 11 11	38. 00 44. 00 33. 00 33. 00 33. 00 33. 00 48. 00 33. 00 36. 00 36. 00 36. 00 37. 00 38. 00 38. 00	Free Free Free Free Free Free Free Free
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Total	.		14, 562	56, 232, 00	I

The following tables were compiled by the committee from the foregoing statistics of the Treasury Department, which were taken from the books of the collectors of customs at the various ports. In reducing pounds to tons, 1,000 pounds or more were considered as 1

ton (2,000 pounds) and quantities under 1,000 pounds were disregarded. The results, therefore, are only approximately accurate, but they present a fair résumé of a mass of figures concerning the importation of wood pulps and printing papers into the United States from January 1, 1907, to June 1, 1908.

Importations from Canada into the United States from January 1, 1907, to January 1, 1908.

	Quantity.	Value.
Ground wood pulp	Tons. 138, 660 50, 859 13, 362	\$1, 919, 624. 69 1, 836, 809. 02 473, 044. 81

# PRINTING PAPER.

#### [According to value per pound.]

	Quantity.	Value.
2 cents and under. 2 cents to 2½ cents. 2½ cents to 3 cents. 2½ cents to 5 cents.	Tons. 13,248 82 32 2	\$467, 948. 81 3, 524. 00 1, 553. 00 19. 00
Total	13, 362	473, 044. 81

# No bleached chemical wood pulp was imported.

Importations from Canada to the United States for five months, January 1, 1908, to June 1, 1908.

	Quantity.	Value.
Ground wood pulp. Chemical pulp, unbleached. Printing paper.	Tons. 44, 179 11, 981 - 5, 677	\$512, 832. 88 414, 258. 28 237, 015. 00

a All printing paper imported valued at 2 cents per pound or less, except 17 tons valued at above 2 cents and less than 24 cents, amounting to \$846.

No bleached chemical wood pulp was imported.

European importations to the United States from January 1, 1907, to January 1, 1908.

	Quantity.	Value.
Ground wood pulp. Chemical pulp, unbleached Chemical pulp, bleached Filter masse Printing paper.	Tons. 12,202 49,037 37,389 134 41,515	\$430, 900 1, 759, 415 1, 876, 911 24, 400 = 240, 665

a 13 tons from Japan valued at \$4,392.

European importations to the United States from January 1, 1907, to January 1, 1908— Continued.

#### PRINTING PAPER.

## [According to value per pound.]

	Quantity.	Value.
2½ cents to 3 cents. 8 cents to 4 cents. 4 cents to 5 cents. 5 cents and over.	79 54	\$2,670 6,752 4,778 226,465
Total	1,515	240,665

European importations to the United States from January 1, 1907, to January 1, 1908, by countries of origin.

#### [Tons of 2,000 pounds.]

Countries.	Ground wood pulp.	Chemical pulp, unbleached.	Chemical pulp, bleached.	Filter masse.	Printing paper.
Austria-Hungary Germany Norway Sweden	8,603 1,225	1,308 21,251 6,294 16,861	5, 252 8, 472 17, 618 1, 926	107	327 554
Russia			4,022		

European importations to the United States for five months, January 1, 1908, to June 1, 1908.

	Quantity.	Value.
Ground wood pulp. Chemical pulp, unbleached Chemical pulp, bleached Filter masse Printing paper	(2)	\$131, 124 546, 267 661, 008 1, 405 66, 218

#### PRINTING PAPER.

#### [According to value per pound.]

	Quantity.	Value.
2 cents to 24 cents.	Tone.	
Z cents to 2g cents.  3 cents to 4 cents.  4 cents to 5 cents.	33	\$634 4, 393 887 60, 304
5 cents and over.	377	60, 304
Total	433	68, 218

European importations to the United States for five months, January 1, 1908, to June 1, 1908, by countries of origin.

Countries.	Ground wood pulp.	Chemical pulp, unbleached.	Chemical pulp, blesched.	Filter masse.	Printing paper.
Austria-Hungary Germany Norway Sweden Russia	999 869 1,178	Tone. 114 6,853 4,694 3,240 749	Tons. 851 4,110 3,092 3,545 964	Tons. 39	Tons. 112 145

Other countries that imported various kinds of pulp and printing paper are: England, Scotland, France, Belgium, Netherlands, and Italy. The amount of printing paper imported from these countries combined, during the seventeen months, was 810 tons.

# PULP AND PAPER INVESTIGATION HEARINGS

HJ9821

OCTOBER 14, 15, 18, 20, 21, 23, AND 26, 1908

### SELECT COMMITTEE OF HOUSE OF REPRESENTATIVES

JAMES R. MANN, Illinois, Chairman

JAMES M. MILLER, Kansas WILLIAM H. STAFFORD, Wisconsin HENRY T. BANNON, Ohio

THETUS W. SIMS, Tennessee

WILLIAM H. RYAN, New York

NO. 32

WASHINGTON
GOVERNMENT PRINTING OFFICE
1908



# WOOD PULP, PRINT PAPER, ETC.

WEST HOTEL,
Minneapolis, Minn., October 14, 1908—10 a.m.

# STATEMENT OF F. J. KLINE, OF MINNEAPOLIS.

(Sworn and examined by the chairman.)

The CHAIRMAN. Give us your name.

Mr. KLINE. F. J. Kline.

The CHAIRMAN. Your business?

Mr. KLINE. Logger and lumberman. Superintendent of logging.

The CHAIRMAN. Connected with whom?

Mr. KLINE. T. B. Walker.

The CHAIRMAN. Can you tell us in your own way something in regard to the forestry conditions and the quantity of forests of Minnesota, especially as to the spruce forests?

Mr. KLINE. I have been traveling through that country for the last thirty-five years. You mean in reference to the growth of spruce?

The CHAIRMAN. Have you any idea as to the quantity of spruce

forests?

Mr. KLINE. It would be pretty hard for me to say anything in regard to the exact quantity of spruce, or an estimate of it, because I have never paid so much attention to that. But I have been over the country and observed and noticed spruce all through the land.

The CHAIRMAN. How does the spruce usually grow here, by itself

or intermingled with other trees?

Mr. KLINE. It is intermingled with other trees. I don't know as I have ever seen any large spruce swamps in Minnesota. I do not believe I have ever been on much land but what there was some spruce on it, unless it is around close to the lake shores or bodies of water. You don't see much spruce there. When you get back where there is a thick growth of timber you find scattered through that more or less spruce.

The CHAIRMAN. What grows in the swamps up here, tamarack?

Mr. Kline. Yes; the swamps are tamarack and cedar, but in that there is always scattered spruce, whether it is a cedar swamp or a tamarack swamp, and take it in these open bogs you find islands where there is considerable spruce.

The CHAIRMAN. As far as your knowledge goes, there are no very

extensive tracts of almost pure spruce?

Mr. Kline. No, sir.

The CHAIRMAN. In an ordinary Minnesota forest, what proportion

of the trees would be spruce? Have you any idea?

Mr. KLINE. That would be pretty hard for me to answer at once. I would have to think that over a little. You go up almost any

stream, whenever there is any thick growth of any small timber you will find spruce in there, running from 4 inches to 7 inches in diameter. The spruce that I have seen in Minnesota is all small. We do not have any logging spruce unless it is some of the butts. The balance is generally too small for logs. I have not paid so much attention to that.

The CHAIRMAN. The spruce generally, then, is not of sufficient size

for saw logs?

Mr. KLINE. No, sir. They get a good many spruce logs, too. As a rule, if you do get logs, they are very small logs and better be cut into wood.

The CHAIRMAN. Do the other trees grow large?

Mr. Kline. You can go up on ridges along where there are large tracts of scattered white pine and find birch in there, and you will find scattered spruce there, and that spruce is large; that is, it will be, say, from 8 to 12 and 14 inches in diameter at the butt. You may get a couple of logs out of that and the balance of it is too small for logs and it is a little rough, too. Then you get down on the lower swamps where the undergrowth is smaller, there you will find a good deal of scattered spruce, but it is small.

The CHAIRMAN. Have you any idea as to the age of small spruce? Mr. KLINE. No, sir; I have not. It has been growing there ever

since I have been in that country.

The CHAIRMAN. That would not be very long?

Mr. Kline. No; thirty-five years is all. I have made a good many trips up into the Rum River country near Mille Lacs. There was considerable spruce in through there which has been cut. Then when we went up toward the line of the Northern Pacific running east and west the spruce was not quite as thick. Starting then from Brainerd and going north toward a line that would run south of Leech Lakes, there was considerable Norway and black pine, but still we got a good deal of spruce. I never considered that we got into the spruce country until we got up on a line running by Bemidji Lake. When you get north of Bemidji Lake and take a line east and west, there is where you commence to get into more spruce than you have south of there. That has been my observation.

The CHAIRMAN. You consider, then, that the spruce forests of Min-

nesota would be north of that east and west line?

Mr. KLINE. Yes, sir. The farther north you go until you get up toward Rainy Lake, the thicker the spruce is. Take it on the Big Fork and through that country, I have seen a good many forties that had a good deal of spruce on them, pretty well covered with spruce.

The CHAIRMAN. When you say a good deal of spruce, can you give us any idea of the quantity it would run by any form of measurement in your mind either as to the number of trees or the board

measurement?

Mr. KLINE. We have estimated a good deal of land where it runs from 100 up to 400 cords to the 40 of spruce.

The CHAIRMAN. When you speak of cords, do you mean cords of

Poow glug

Mr. KLINE. Yes, sir. I mean cords of pulp wood. In estimating timber now days we estimate everything there is on the land—cedar poles, tamarack, and everything we have got. I should judge that

the spruce through the country would not run over a cord and a half or two and a half cords to the acre—about a cord and half to two cords.

The CHAIRMAN. Is most of the spruce pulp that is cut up there

cut in connection with the cutting of telegraph poles and ties?

Mr. Kline. Yes; most of it.

The CHAIRMAN. That is, they cut a piece clean, taking out the cedar

for telegraph poles?

Mr. Kline. That is getting to be the practice a good deal now. Some of these firms will buy a tract of land, and when they cut it they cut it for the market to get everything there is on it. They will have cedar poles and cedar posts and some scattering logs and pulp wood, and whatever there is on the land they cut, and cut it to sell. Years ago, when a man went in to cut cedar, he contracted first as to what he wanted. If he wanted a lot of cedar, he would go and cut it and leave the spruce and tamarack, but the firms are changing something in that respect; there are so many yards there.

The CHAIRMAN. What do they use the tamarack for?

Mr. Kline. Principally for ties. And they cut logs. The saw-mills, where they can haul logs right to the mill, cut tamarack, and also cut tamarack along the streams and deliver it down in the booms here.

The CHAIRMAN. Does the tamarack grow large?

Mr. KLINE. No; it does not grow very large. Tamarack grows from 8 to 12 inches at the butt.

The CHAIRMAN. Why is it, in your opinion, that the spruce is not larger up there?

Mr. KLINE. It is not a spruce country like they have in Wisconsin. The CHAIRMAN. I have been told that this was a spruce country.

Mr. KLINE. I mean for logging. It is just the same with the birch in this country. I do not know why we do not produce the same kind of birch in this country that they do in Wisconsin. The big yellow birch don't grow.

The CHAIRMAN. In your opinion Minnesota is not as good a soil and climate combined for the production of spruce forests as Wis-

consin?

Mr. Kline. No, sir; I don't think so. I don't know except what they tell me. I have never been in Wisconsin. They tell me that there has been lots of spruce and hemlock taken out of there. That is all I know.

The CHAIRMAN. I can tell you that they have mighty little spruce

in Wisconsin.

Mr. Kline. I only know what loggers and others have told about that. Take our tamarack in this country right up to Deer River there, where they have cut perhaps half a million tamarack ties. I think 10 or 15 per cent of those ties are so small that the railroad company won't take them. They can not get a 6-inch face on them. I have been there recently and bought a lot.

The CHAIRMAN. I noticed in Wisconsin, when the committee was there a few weeks ago, that they have at all of the mills a very large supply of spruce wood on hand, most of which has come from northern Minnesota and a large proportion of which was extremely small, and practically not any of it was of large size. They told us that

that was cut in the main where they were cutting cedar poles and tamarack ties.

Mr. KLINE. That is the way they are doing now.

The CHAIRMAN. Do you get out any pulp wood yourself, your people?

Mr. Kline. No, sir.

The CHAIRMAN. Are your people engaged in the lumber business?

Mr. Kline. Yes, sir.

The CHAIRMAN. What do you make?

Mr. KLINE. Cutting logs; manufacturing them into lumber.

The CHAIRMAN. Just making lumber?

Mr. Kline. Yes, sir.

The CHAIRMAN. From what?

Mr. KLINE. Norway and white pine and tamarack.

The CHAIRMAN. Do they use spruce?

Mr. KLINE. Yes, sir; and birch. The CHAIRMAN. How much spruce do you use? Do you cut much

spruce?

Mr. KLINE. We are cutting east of Park Rapids and west of Leech Lake and extending over toward Lake Itasca. I never figured out the percentage, but there is spruce on about all of that land. It would be pretty hard for me to say how much there is.

The CHAIRMAN. What do you do with the small spruce? Mr. KLINE. Cut it down to 5 inches and haul it to the mill.

The CHAIRMAN. Cut it into lumber?

Mr. KLINE. Yes, sir.
The CHAIRMAN. Do you cut any into pulp wood?

Mr. Kline. No, sir.

The CHAIRMAN. You cut it clean, I suppose.

Mr. Kline. We cut it clean.

The CHAIRMAN. Do you own the land?

Mr. KLINE. In some cases they own the land, and in some cases own the timber.

The CHAIRMAN. Do they make any distinction as to cutting it clean between the land that they own and the land that they buy the stumpage on !

Mr. Kline. No, sir.

The CHAIRMAN. Do you know whether any one in Minnesota outside of the State adopts the practice of cutting only the mature tim-

Mr. KLINE. I do not know what the custom is outside of the people that I am working for. It depends on their contracts, I suppose, a good deal. Some of the old contracts that these lumbermen have with timber owners were for the pine timber standing on the land. They were made years ago. The contracts that are made now are for all the timber on the land, and they cut everything, as far as they can, into logs.

The CHAIRMAN. In the East in some places, now, where the land is owned by the paper mills or those interested in them, they do not cut young spruce wood under 12 and 14 inches. If they adopted that practice here, they would not cut much spruce wood, I take it

from your statement.

Mr. KLINE. No; they would not cut much spruce.

The CHAIRMAN. Are these small spruce trees young trees?

Mr. KLINE. I would not judge them to be. I have never figured on the age. I suppose it averages up probably with other timber of

about the same size. Just how old it is, I do not know.

The CHARMAN. Of course, we will endeavor to ascertain the age of those trees, but spruce timber of that size ought not to be so very old. Was it just as big thirty-five years ago as it is now? In other words, do these spruce trees under such conditions as you describe reach their maturity at the size of 7 or 8 inches in diameter?

Mr. KLINE. I do not think they do. I think they grow the same as

any other trees.

The CHAIRMAN. Do you think all the small spruce trees would, or a fair proportion of them if permitted to remain there, would develop

into saw logs eventually of good size?

Mr. KLINE. Well, I do not know. I do not say they would not. It is a matter I have not studied into. The spruce may have sprung up and started to grow later than the other class of timber. My idea is it started about the same time that the tamarack did. I do not think it grows quite as fast as tamarack.

The CHAIRMAN. Do you think the forests up there started to grow

within the last fifty years?

Mr. KLINE. Oh, no.

The CHAIRMAN. I suppose there were forests there a good many

years ago.

Mr. Kline. I suppose there were. Long before fifty years. When we started to explore where the waters commence running north, we went up to the north end of the Bemidji Lake, and there are portages there over into the lakes where the waters run north. When we got into the Red Lake country or got into the country that is tributary to Rainy River, we considered we got into a good deal heavier spruce country than we had been in south of there. To estimate it up, I did not do it.

The CHAIRMAN. Are the spruce trees large up in the Rainy River country?

Mr. KLINE. No, sir; I never saw any very large trees there.

The Chairman. Do you have any hemlock in northern Minnesota?
Mr. Kline. I do not remember of ever seeing any hemlock in Minnesota. I might have run onto some.

The CHAIRMAN. Do you have much balsam fir?

Mr. KLINE. Yes; we have some. I can not say that we have a large amount of it, but we have some balsam.

The CHAIRMAN. Just scattered through the forests?

Mr. KLINE. Yes; scattered through the woods. It grows just about in the same manner that spruce does.

The CHAIRMAN. Do you have much cottonwood?

Mr. KLINE. Yes; we have some cottonwood. The CHAIRMAN. What do you use that for?

Mr. Kline. Cut it into logs now. Do you mean basswood?

The CHAIRMAN. No; basswood is a linden. Tilia americana.

Mr. KLINE. I had in mind basswood. Cottonwood is that small, tall stuff with light bark.

The CHAIRMAN. That is aspen, this small stuff that they call poplar

or popple.

Mr. Kline. Does it grow on low land, this cottonwood?

The CHAIRMAN. It grows on any kind of land pretty nearly.

Mr. KLINE. I don't remember seeing much of that kind, if I understand you right.

The CHAIRMAN. Cottonwood is *Populus deltoides*.

Mr. Kline. A number of years ago if you spoke Latin terms to me I would have known something about it. I have not seen a Latin book for forty years, so you will have to speak English.

The CHAIRMAN. I thought it might help you out if you did not

identify it by the English names.

Mr. KLINE. No, sir. When I went to school I had to learn my prosody in Latin down at Notre Dame, but I got all I wanted there. The CHAIRMAN. Have you any views as to the future supply of

forest trees for lumber and pulp-wood purposes?

Mr. KLINE. No; I have been in this business since 1871, and in about 1879 or 1880 the people of this town thought that T. B. Walker, Frederick Weyerhaeuser, and the Pillsburys, and two or three other men controlled all the forests in Minnesota, and it was going to be cut off in about ten years. I have been waiting ever since for this timber to be cut off.

The CHAIRMAN. Hasn't it been largely cut off?

Mr. KLINE. It has been largely cut off, but I can take you where they have been cutting clean for the last ten years, and they get all the way from fifty to a hundred millions every year, so I have given it up.

The CHAIRMAN. Can you find any white-pine forests up here?

Mr. KLINE. They keep cutting it right along. The CHAIRMAN. Where do they take it to?

Mr. KLINE. They are bringing it down into the booms and they are sawing it up at the mills.

The CHAIRMAN. We can not get it in Chicago.

Mr. KLINE. They get it here. They are sawing at Bemidji. There are two big mills there. They are sawing at International Falls and they are sawing at Duluth. I don't know where they are not sawing logs, hardly. They keep getting it.

The CHAIRMAN. What is it worth?

Mr. KLINE. It depends on whether you are hard up nowadays. don't know. Logs are worth, I suppose, about \$18 or \$20. Some of them sell for a good deal less than that.

The CHAIRMAN. How high has white-pine lumber sold for in the

last two or three years?

Mr. KLINE. I am not posted in the lumber business. I am logging. I don't remember what it has sold for.

The CHAIRMAN. Do you think there is much white pine left in Minnesota?

Mr. KLINE. Judging from the past, I should think that there was.

The CHAIRMAN. Where is that?

Mr. Kline. There is timber all over northern Minnesota, I think. The Chairman. I suppose the gentlemen are going to show us some of it.

Mr. KLINE. There is lots of timber on the Big Fork.

The CHAIRMAN. How about Norway pine; is there a good deal of that here?

Mr. Kline. Yes. Take it west of Leech Lake and northwest, there is a very large amount of Norway there.

The CHAIRMAN. Is there any forest left up around Leech Lake

except that which is on Indian reservations?

Mr. Kline. Yes.

The CHAIRMAN. I was up there a few years ago and I couldn't see anv then.

Mr. KLINE. Well, I will tell you. You go between Leech Lake and

Little Boy and there is timber in there.

The Chairman. That is where it has not been accessible, I suppose. Mr. KLINE. It is where it has not been cut. We talked of cutting some there this winter. I don't know as we will.

The CHAIRMAN. When you cut timber up here it is cut usually in

the fall and winter, I suppose?

Mr. KLINE. Yes, sir.
The CHAIRMAN. How do you get it out?

Mr. KLINE. The logging nowadays is done principally on rail-

roads. Some of it driven into the streams.

The CHAIRMAN. That depends upon where the railroad runs, then, as to whether it is profitable to get the logs out, I suppose?

Mr. Kline. Yes.

The CHAIRMAN. How far from a railroad can they afford to bring

logs to railroads without running a little spur in ?

Mr. KLINE. It depends a good deal on the character of the country and the quantity of the timber. There are a good many things which enter into it.

The CHAIRMAN. I do not mean white-pine lumber, because that

they haul for a long distance.

Mr. KLINE. Any kind of timber you have got to figure on a good many different things. As to whether you will haul on sleds or build n spur. They have got what they call steam log haulers. That is coming in. Whether you are going to haul them on that or haul them on a sled or a railroad. A man will figure for a week if he has got fifteen or twenty million feet of logs to haul whether he will build a railroad or haul them on sleds.

The CHAIRMAN. How far do they haul them on sleds?

Mr. KLINE. There is one firm up north that hauls on sleds about 10 miles.

The CHAIRMAN. That would be probably an extreme distance that it would pay.

Mr. Kline. Yes, sir.

The CHAIRMAN. The cutting of logs in the country depends prac-

tically to-day upon getting a railroad within 10 miles?

Mr. Kline. Yes; I will explain that to you. There was a level country, boggy and open, where it was easy to build a good winter logging road and difficult to build a railroad, and there was just a bunch of timber out there to cut.

The CHAIRMAN. Ordinarily, then, they would not haul to a railroad

from a distance of 10 miles?

Mr. KLINE. No; we do not expect to haul over 3 miles.

The CHAIRMAN. Is there a good deal of forest up here in Minnesota where there are logs that are a good deal farther than that from any railroad communication? I should think there would be. Mr. KLINE. There is east of the Minnesota and International road on the Big Fork River and all through there. There is lots of white pine in there and it is a good ways off—18 or 20 miles from a railroad—but they are surveying in that country and expect to get it out on railroads.

The CHAIRMAN. Where they haul it directly to the railroads, does it make much difference whether they have plenty of snow on the

ground in the winter time?

Mr. KLINE. Yes, it does; unless they have very cold weather and can ice the road. They have got to depending principally on icing roads now for logging purposes—more than they do snow.

The CHAIRMAN. How do they ice a road?

Mr. Kline. They will cut a road all the way from 18 to 20 feet wide, clear a strip, and then they go out and grub a place about 10 feet wide, take all the stumps out and level it up in nice shape, and they have then what they call a rut cutter that they put down, and they cut a sort of trench on each side just the width they are going to run the slabs, and after this cutting they have what they call a sprinkler or tank and it is constructed something on the principle that the tanks you see on the streets here are. There are various methods for filling that tank. When it is filled they put on all the way from six to ten horses and the first time it goes over the road the water comes in and fills the rut. They do that early in the fall, generally in the afternoon or at night, so when it passes over it freezes up, and then they keep passing that tank over the road until the ruts are pretty well filled up with ice.

The Chairman. That makes pretty smooth hauling for a sled?

Mr. Kline. Yes, that makes a smooth hauling for a sled? Mr. Kline. Yes, that makes a smooth haul for a sled. There are not very many logs hauled on snow. Where there is heavy snow, they have a snow plow and they plow the snow all out and then cut the rut. That is assuming that the road has been made. They cut the ruts out and fill them with ice. That is one method. They have another method of logging in this country, and that is with a wide sled with the runners 7 or 8 feet apart. They have another system where the runners are about 4 feet apart and they just make a solid ice road of that. On these sleds they hitch a single team. On the large sleds they hitch four horses.

The CHAIRMAN. Do you want to ask any questions, Mr. Norris?

Mr. Norris. No.

The CHAIRMAN. Have you any suggestions to make, Mr. Kline?
Mr. KLINE. No; I don't know as I have. Any information I have
I will be glad to give you.

# STATEMENT OF MR. EDWARD W. BACKUS, OF MINNEAPOLIS.

(Sworn and examined by the chairman.)

The CHAIRMAN. Will you give us your full name and your company?

Mr. Backus. Edward W. Backus.

The CHAIRMAN. What is your address?

Mr. Backus. Andrus Building.

The CHAIRMAN. What company are you connected with in this line?

Mr. Backus. With the Minnesota and Ontario Power Company.

The CHAIRMAN. Which has a plant at Rainy River?

Mr. Backus. Which is building there at the present time. The CHAIRMAN. In connection with the Rainy River dam?

Mr. Backus. Yes, sir.

The CHAIRMAN. Is that what you call the Rainy River dam?

Mr. Backus. Yes, sir.

The CHAIRMAN. That is on the international boundary line?

Mr. BACKUS. Yes, sir.

The CHAIRMAN. How much of a plant are you constructing there? Mr. Backus. Our initial plant will be 200 tons of news-print paper per day.

The Chairman. What water power do you have there?

Mr. BACKUS. Practically 30,000. It varies from thirty to thirtyfive or thirty-six.

The CHAIRMAN. What fall do you get? Mr. Backus. From 28 to 36 feet head.

The CHAIRMAN. We have in our examination this year ascertained that a good many of the mills in Wisconsin and the East have been very materially interfered with by the drought, lack of water. your plant likely to be affected that way?

Mr. Backus. There are no signs of it up to date.

The CHAIRMAN. Do you mean that the flow in the river there has not fallen?

Mr. Backus. Not materially. Our country is a flat country full of lakes and rivers. We have no extreme floods and no extreme low water. The water is very uniform.

The CHAIRMAN. In the construction of your plant up there, how do you expect to operate it as relating to the question of tariff on paper and pulp and the regulations in regard to the exportation of pulp wood from Ontario?

Mr. BACKUS. Our power is developed with a power house on each side of the river, a Canadian power house and an American power house. In the Canadian power house we can grind crown-land pulp wood. The paper mill will be on the American side.

The CHAIRMAN. Then if you use that crown-land wood you pay a

tariff?

Mr. Backus. We would pay \$1.66 a ton duty; yes, sir.

The CHAIRMAN. Which is the best spruce country up there, the Canadian side or the American side, or is it similar?

Mr. Backus. Verv similar.

The CHAIRMAN. What character of spruce do you have there?

Mr. BACKUS. The black spruce, a small growth of spruce that is hardly suitable for saw-log timber. It is what we call black spruce. The bark is black but the fiber whiter than the white spruce.

The CHAIRMAN. How large does it grow?

Mr. BACKUS. It ranges all the way from as thick around as your wrist up to—on high land, of course, there is some saw-log spruce, but generally from 3 to 10 inches at the butt.

The CHAIRMAN. Do you know what size it is when it reaches ma-

turity?

Mr. BACKUS. That depends altogether on the kind of soil it grows on.

The CHAIRMAN. At what age does it reach maturity?

Mr. BACKUS. That is a pretty hard question to answer, for this reason. You take it in the center of a very wide swamp, and the spruce grows to the size of about 3 inches or 4 inches, and then it stops growing, because it is so wet that it don't continue its growth. As you go away from the center of the swamp, it gradually grows larger and larger, and when you reach the high land it grows large enough to be suitable for saw logs. I think the small spruce right in the middle of the swamp that is only 3 inches through is just as old as the high-land spruce which may be 18 inches through the stump.

The Chairman. Have you ever examined it to ascertain its age?

Mr. BACKUS. You mean inspected the layers?

The CHAIRMAN. Yes.

Mr. Backus. No; I have heard people tell about doing it. I never have done it personally.

The CHAIRMAN. What is the character of the spruce forests up

there; is it pure spruce or mixed with other woods?

Mr. BACKUS. You get into a strip of spruce; sometimes it is all spruce; in other places it is mixed with other timber—balsam and poplar.

The CHAIRMAN. Are you a forestry man yourself? Mr. Backus. I have been in the woods a good deal.

The CHAIRMAN. What is the growth up there, what kind of woods? Mr. BACKUS. The woods in that country generally are pine, white and Norway, spruce, poplar, balsam, a sprinkling of balm of Gilead, and a little hard wood on the high land.

The CHAIRMAN. Do you have any tamarack?

Mr. Backus. Tamarack and jack pine.

The CHAIRMAN. And cedar?

Mr. Backus. And cedar; yes.

The CHAIRMAN. Is there much cedar up there in your country?

Mr. Backus. A world of it.

The CHAIRMAN. You did not speak of it before, and so I thought possibly there was none.

Mr. Backus. I did not know you were interested in the cedar end

The CHAIRMAN. We are interested in knowing what grows in the forests there. It often indicates the character of it.

Mr. Backus. I will tell you about how the timber grows in proportion in that country. Poplar is the predominating wood.

The Chairman. What do you mean by poplar, ordinary cotton-

wood?

Mr. BACKUS. White poplar.

The CHAIRMAN. Aspen?

Mr. Backus. No; it is a growth a little different here from what it is down South, but when you get it sawed into lumber it is about the same as the white poplar down South.

The CHAIRMAN. You do not mean basswood, do you?

Mr. Backus. No.

The CHAIRMAN. Do you mean cottonwood?

Mr. Backus. No.

The CHAIRMAN. There is no such thing as poplar, as a tree.

Mr. Backus. That is what we call it.

The CHAIRMAN. Poplar is a generic name covering forty different things.

Mr. Backus. That is what we call white poplar.

The CHAIRMAN. White poplar is the aspen. It does not grow very

Mr. Backus. It grows up in that northern country 2 feet or more

through.

The CHAIRMAN. I do not think it is aspen, then. I never heard of aspen growing as large as that. It is a short-lived tree. That is what covers all this country when the timber is cut off usually.

Mr. Backus. You will see some of the finest poplar that you ever

saw in your life, and that is the predominating wood.

The CHAIRMAN. Does that make good ground wood?
Mr. Backus. No; not the best. It makes very good sulphite.

The CHAIRMAN. It makes better soda fiber.

Mr. Backus. Yes.

The CHAIRMAN. If it is cottonwood.

Mr. Backus. Yes; better soda pulp for book paper. Of course, you can grind 10 per cent of it with the spruce, and you can put 40 or 50 per cent of it in with your sulphite.

The CHAIRMAN. I do not think you would find it very profitable to

make it into sulphite. They told us they did not.

Mr. Backus. They may not always tell you facts.

The CHAIRMAN. I think as a rule they have been very fair with us about telling us facts.

Mr. BACKUS. You have not seen poplar in Wisconsin like our

poplar up there, I promise you that.

The Chairman. I think yours is cottonwood.

Mr. BACKUS. You will change your mind on that, I am sure, when you see it. Now, I was going on. The next would be the spruce predominating. This balsam—

The CHAIRMAN. Is the spruce mainly on the lower ground?

Mr. Backus. Yes; swamp spruce.

The CHAIRMAN. In connection with tamarack?

Mr. Backus. Yes, sir. Then you come in with your tamarack and your jack pine, and in the cedar swamps, of course, the cedar predominates, and then on all the high land up there is your pine, white and Norway.

The CHAIRMAN. Is there very much hard wood up there?

Mr. BACKUS. Not very much.

The CHAIRMAN. What is the hard wood?

Mr. BACKUS. White birch and elm and a little maple.

The CHAIRMAN. It is the sugar maple, of course; hard maple? Mr. BACKUS. Yes; very little—a little hickory and wood like that.

There is not very much hard wood there.

The CHAIRMAN. Is the white birch that is up there the paper-leaf birch?

Mr. Backus. I do not know what you call the paper-leaf birch.

It is not very plentiful.

The CHAIRMAN. Birch that they make the birch bark canoes from. Mr. Backus. Yes. Of course, that country is so large up there if it were well timbered all over there would be timber enough there to supply the United States for the next twenty-five years. We have got 10,000,000 acres of land on that north divide in Minnesota. You

just figure that out for a well-timbered country like timber grows on the west coast and you would have an enormous supply. So that you can have a great deal of waste land, and you go through the country and spend a day and find half of the land waste, and you would say there can not be a great deal of timber in this country; but when you come to figure out that there is 10.000,000 acres in just a little spot in northern Minnesota you do not need it very heavily timbered in order to grow a great deal of timber.

The Chairman. What is your water up there? Lakes?

Mr. BACKUS. A great deal of water. It is a well-watered country. The CHAIRMAN. Is there much of it too swampy for timber to grow in at all?

Mr. Backus. Not a large proportion, but quite a good deal.

land is too wet for timber to grow and be thrifty.

The CHAIRMAN. Is there any character of land that does not grow timber except where it is too wet?

Mr. Backes. No, sir.

The CHAIRMAN. On all the higher ground there is timber?

Mr. BACKUS. Yes; except where it has been burned off. All of the land has carried timber at times. Once in a while we find a patch of old growth opened up, but the most of the timber—in fact, nearly all of it—is second growth.

The CHAIRMAN. It has been cut over, then.

Mr. Backus. Oh, no; it has been burned—maybe a hundred years ago, or two hundred years ago—burned slick and clean, except, as I say, occasionally a spot here and there where you will get some nice white pine and make three and four logs to the thousand.

The CHAIRMAN. Have they had any forest fires there this year?

Mr. Backus. Not to speak of.

The CHAIRMAN. Do you have a practically inexhaustible supply of wood adjoining your mill? Mr. Backus. Yes, sir.

The CHAIRMAN. From both the Canadian and the American side?

Mr. BACKUS. Yes, sir.

The CHAIRMAN. Do you think that there is plenty of spruce wood on the American side?

Mr. BACKUS. Yes, sir.

The CHAIRMAN. Why is it then that you propose to have your

power plant and grind your wood on the Canadian side?

Mr. Backus. We do not. We propose to have a power plant on each side. You can not import the wood from crown land out of Canada and you have got to cut it into ground wood.

The CHAIRMAN. I understand, but you have got to pay a duty on

the ground wood?

Mr. Backus. Certainly.

The CHAIRMAN. Why do you grind wood in Canada then if you have plenty of wood in the United States?

Mr. Backus. We want to utilize some of the power on that side.

The CHAIRMAN. That is a question of increasing the quantity of your power?

Mr. BACKUS. Yes.

The CHAIRMAN. It is not because wood is cheaper on the Canadian side ?

Mr. BACKUS. No.

The CHAIRMAN. What is the difference per cord on the two sides?

Mr. BACKUS. It is about the same up there.

The CHAIRMAN. Do you know what pulp wood is worth up there

Mr. Backus. Well, you take crown-land wood there, the government charges 40 cents a cord for it—the Canadian government.

The CHAIRMAN. That is stumpage?

Mr. Backus. Stumpage; yes.
The Chairman. Tell us in reference to the character of contract

that the Ontario government makes.

Mr. Backus. Well, the Ontario government makes a contract always providing that the wood shall be cut and ground in the Province of Ontario.

The CHAIRMAN. That is on public land. They do not sell the

land. What sort of an arrangement do they make?

Mr. Backus. They just grant a right to cut timber on certain

The CHAIRMAN. For how much consideration?

Mr. Backus. Forty cents per cord, as you cut it. In certain instances they have the areas put up for public tender, and then a bonus is bid, but the most of their concessions up to date have been granted in consideration of developing the water power and building the mills and building up the industries.

The CHAIRMAN. Without any bonus?

Mr. BACKUS. Yes.

The CHAIRMAN. How long a time do they give you in which to cut the wood?

Mr. Backus. Twenty-one years. Their permits are all twenty-one years, then renewable, of course.

The CHAIRMAN. Renewable at what rate?

Mr. Backus. Whatever the government rate happens to be at the time. They do not tie themselves down to 40 cents for any period of time.

The CHAIRMAN. Do they agree to renew the permit?

Mr. Backus. Yes; I think they usually do.

The CHAIRMAN. Have you a permit from the government there?

Mr. Backus. I might say yes and no, to part of the area. The CHAIRMAN. You might say, but what do you say?

Mr. Backus. I do not care to go into that.

The CHAIRMAN. Yes; but we care to have you and we have the power. I do not wish to do anything that is improper.

Mr. BACKUS. I do not think you have a right to inquire into my affairs which deal with a foreign government, do you?

The CHAIRMAN. Most certainly. Certainly we have the power.

Mr. Backus. Well, then I can say that we-

The CHAIRMAN. Is there any effort, any desire, on their part for secrecy in such matters? We do not wish to interfere with your plans with the Ontario government, of course, but do they object to making public the terms upon which they grant permission to cut

Mr. Backus. No; I do not know as they do. I do not know about that.

The CHAIRMAN. How far does that spruce forest extend to the north of you?

Mr. Backus. It extends a long ways.

The CHAIRMAN. How far does the Province of Ontario run west of your place?

Mr. Backus. About 75 miles.

The CHAIRMAN. How far north on a line north of you?

Mr. BACKUS. It goes clear up through the Province of Ontario. We are on the boundary line.

The CHAIRMAN. How far is the northern line of the province from

vour plant?

Mr. Backus. I could not tell without looking at the map. The Rainy River basin extends up about 70 miles north, and then bevond that tract of land there is still pulp wood and pine.

The CHAIRMAN. That is what I wanted to get at. Is there spruce

land in the west of Ontario there?

Mr. BACKUS. Yes, sir.

The CHAIRMAN. The spruce forests extend clear to the western boundary of Ontario?

Mr. BACKUS. Yes, sir.

The CHAIRMAN. And beyond?

Mr. Backus. Not very much beyond; right at the boundary line. The CHAIRMAN. Of course, the boundary line there, as I recollect it, runs in a northeasterly direction.

Mr. Backus. You mean between Manitoba and Ontario?

The CHAIRMAN. The Ontario boundary line.

Mr. BACKUS. Yes; I think that is true.

The CHAIRMAN. Does the spruce forest run off in a northerly direction for a considerable distance?

Mr. BACKUS. Yes, sir.

The CHAIRMAN. Have you ever been up in there at all?

Mr. BACKUS. I have been up on the north divide, around the Canadian Pacific country. We have had our men up in there.

The CHAIRMAN. What is the character of the forest up there?

Mr. Backus. Much the same.

The Chairman. How far south of you does the spruce forest extend?

Mr. BACKUS. Well, the portion that we are interested in goes to what we call the southerly end of the north divide, where the waters flow north. From there south on the waters coming this way and into Lake Superior it is all more or less spruce country.

The CHAIRMAN. What does the Rainy River flow into?
Mr. Backus. Into the Lake of the Woods, and then runs north and goes through Lake Winnipeg, and from there into Hudson Bay.

The CHAIRMAN. And the divide is about how far south of the Rainy River?

Mr. Backus. About 70 or 75 miles, varying. It is an average width of about 70 or 75 miles.

The CHAIRMAN. I thought you spoke of a divide on the north of you there.

Mr. BACKUS. I did.

The CHAIRMAN. What you call the height of land?

Mr. Backus. Height of land north of us.

The CHAIRMAN. Where does the water go from there?

Mr. Backus. It doesn't go down through the Rainy River. It flows over and goes into the same stream, though. Here is the Rainv River basin, and here is the divide, and the water in the divide north of that empties part into the Lake of the Woods and part into the river below.

The CHAIRMAN. What facilities have you for getting spruce wood

to your plant?

Mr. BACKUS. The railroads and all the streams coming into the Rainy River on both sides.

The Chairman. Do you expect to rely mostly upon driving logs down or bringing them by rail?

Mr. BACKUS. Both.

The CHAIRMAN. Is there any saw-log timber up there?

Mr. BACKUS. Oh, yes; a great deal of it. The CHAIRMAN. What is it?

Mr. BACKUS. White and Norway pine. There is some saw-log spruce on the high land.

The CHAIRMAN. If we go up with you we will inquire more.

height of land a Canadian term?

Mr. BACKUS. Yes.

The CHAIRMAN. Have you made an estimate of the timber that is adjacent to your plant?

Mr. Backus. Yes, sir.

The CHAIRMAN. Which is naturally tributary there?

Mr. Backus. Yes, sir.

The CHAIRMAN. Can you give us that estimate? Mr. BACKUS. Do you mean to tell you what it is? The CHAIRMAN. Yes.

Mr. Backus. I would rather not.

The CHAIRMAN. Have you any objections to it?

Mr. Backus. No objection to your knowing it, but I do not want to spend eight or ten years and a great many thousand dollars for

the benefit of our competitors.

The CHAIRMAN. I do not quite see how it would affect your competitors to know what prosperity you have in store for yourselves. Have you declined to give that information to the Bureau of Corporations, which has been investigating this subject?

Mr. Backus. I have not been required to.

The CHAIRMAN. They have been gathering information from the owners of the land. I suppose you do not own very much of this land?

Mr. Backus. No.

The CHAIRMAN. You will undoubtedly acquire a great deal of information from our hearings. Don't you think you can afford to contribute something to the other mill owners in the way of information?

Mr. Backus. Perhaps so.

The CHAIRMAN. I think that is quite important. That is what we are endeavoring to ascertain. I wish you would give that to us.

Mr. BACKUS. Our estimate of spruce in Minnesota within the limits of the map that you have-

The CHAIRMAN. Which is practically the Rainy River basin.

Mr. Backus. Yes—is 11.179,500 cords of spruce and there is probably double that amount of poplar and probably one-half that amount of balsam, what we call paper-making woods, besides the jack pine

that they use occasionally.

The Chairman. I see by the map which you have based your figures upon that about half or a little more than half of that basin is in the province of Ontario.

Mr. Backus. Yes, sir.

The CHAIRMAN. Your estimate covers both sides of the line!

Mr. BACKUS. No, sir; I am just talking to you about those portions of these three counties.

The CHAIRMAN. On the American side of the line?

Mr. Backus. Yes, sir.

The CHAIRMAN. Have you made any estimate of the Canadian side?

Mr. Backus. Yes.

The CHAIRMAN. How much wood do you find there?

Mr. BACKUS. Not quite as much as there is on the Minnesota side.

The CHAIRMAN. Do you mean the forest is not quite so heavy?
Mr. Backus. A little more burned country. It has been subjected to more forest fires over there.

The CHAIRMAN. If that country all burned over once before, before the white people settled there, isn't it very liable to burn over again

Mr. BACKUS. I do not think the danger is as great now. There are more people to take care of it. In the days that the most of that country burned over when the fire started nobody knew anything about it until it was all burned.

The Chairman. Nobody seems to care very much about it now

when it burns.

Mr. Backus. Oh, yes. Several fires started up there this fall and they were put out. They got a good start, too.

The Chairman. I heard a good deal when I was up in Wisconsin about their fighting forest fires, and I heard one gentleman connected with a railroad say that he had 500 men out fighting fires, and I went through over a hundred miles of fires on his line of road, and I did not see or hear of a man fighting a fire, and I saw a lot of his men setting fires.

Mr. Backus. I could not say as to that.

The CHAIRMAN. I think that is the experience nearly everywhere. Mr. BACKUS. I know I was there when one nice fire got started and the mill men put it out.

The CHAIRMAN. Isn't it the experience everywhere that there are

fires are more common the more people there are there?

Mr. BACKUS. Yes; I think that is true, excepting that there are

more people to extinguish the fires if they try.

The Chairman. When you get into a country where there is forest and it is very dry, they are not very successful at extinguishing fires, are they?

Mr. BACKUS. Not when it gets a good start with a high wind.

you take it in time you can most always check it.

The CHAIRMAN. You think then that there is very little danger of

that country up there burning over?

Mr. Backus. I think so. It is a very wet country, which is in its favor also.

The CHAIRMAN. No danger of its burning except at a very unusual season, but if such a season has occurred within a hundred or two hundred years, such a season may occur within a very few years again?

Mr. BACKUS Oh, yes; that is possible.
The CHAIRMAN. But not probable, you think?

Mr. BACKUS. I think not.

The CHAIRMAN. Have you any opinion as to the tariff regulations affecting wood pulp and paper, and so forth?

Mr. BACKUS. I do not know as I understand what you mean by opinion. Do you mean whether I think it would be advisable?

The CHAIRMAN. Have you any opinion on that subject?

Mr. BACKUS. Why, naturally I think that the paper interests—
The CHAIRMAN. I have not been able to tell naturally what you

would be in favor of.

Mr. Backus. If you are going to have protection in this country I think the paper business needs it as much as any other industry. It seems to me you would pretty thoroughly wipe a great big industry off the face of the earth, so far as the United States is concerned, if you remitted the duty on the manufactured article.

The CHAIRMAN. How would it be about the duty on wood pulp and

ground wood?

Mr. Backus. That would not affect them so seriously.

The CHAIRMAN. It would be a benefit to your mill, I suppose, to take the duty off of ground wood?

Mr. BACKUS. I do not know as it would be any benefit and I do

not know as it would be a detriment.

The CHAIRMAN. Do you know whether they have much spruce

forest up north of Superior?

Mr. Backus. I do not know very much about that except what I have learned by hearsay. Our own money has been spent in cruising the country tributary to our plant.

The CHAIRMAN. That you have a pretty fair knowledge of?

Mr. BACKUS. That, I think, we know more about than anybody, than anybody has had any desire to know.

The CHAIRMAN. Is there any other good available water power in

that basin?

Mr. Backus. No, sir. From the foot of the falls of Koochiching, that is our water power, I think there is only about 12 feet between that and the Lake of the Woods in the whole distance of 75 miles. There isn't anything there of commercial size. There are powers over in the Canadian Pacific country north of the Lake of the Woods, 150 or 200 miles north.

The CHAIRMAN. Is your water power affected by cold weather?

Mr. Backus. Not adversely; no, sir.

The CHAIRMAN. You never have bought any pulp wood up there, have you?

Mr. Backus. No, sir.

The CHAIRMAN. Is there any being cut there now?

Mr. BACKUS. Yes; some being cut and shipped down this way.

The CHAIRMAN. Do you know what it is worth up there?

Mr. Backus. I think about \$5 a cord.

#### FURTHER STATEMENT BY MR. KLINE.

Mr. KLINE. I would like to make a little explanation. You asked me if that was a spruce country. I told you it was not a spruce country. In reference to that I meant and had in mind tracts of spruce for logging. I have spent my life in logging. I have not paid any attention to this paper business. That is what I had in mind when you asked me if it was a spruce country.

The CHAIRMAN. That is what I understood you to mean. You

had reference mainly to the large white spruce.

Mr. KLINE. The large spruce; yes, sir.

The CHAIRMAN. Not to the swamp black spruce?

Mr. KLINE. No.

#### FURTHER STATEMENT OF BENJAMIN F. NELSON, OF MINNE-APOLIS.

The CHAIRMAN. If you have any additional information on the subject of wood forests of Minnesota, we would be glad to have it. do not remember how thoroughly we went into that question.

Mr. Nelson. We did not go into it very thoroughly. I do not remember of being called on only in a very general way as to the spruce

supply.

The CHAIRMAN. When you testified before, you had your attention called to the scale of wages issued by the Northern Pine Manufacturers' Association?

Mr. Nelson. Yes, sir.

The CHAIRMAN. Which you thought was incorrect in some par-Have you had your attention called to the matter since you testified, in any way?

Mr. Nelson. Yes; I looked it up when I came home and that was

an error. I think there are several errors in that scale of wages.

The CHAIRMAN. So that the testimony that you gave at the time you were satisfied with; is that right?

Mr. Nelson. Yes; so far as that was concerned. I think there were some little errors of the stenographer, but it didn't affect any-

thing very materially.

The Chairman. Suppose it could be provided by legislation or by reciprocal agreement between the United States and Canada that wood pulp might be admitted free of duty from Canada into the United States, and that the exportation of pulp wood cut on the crown lands of Ontario and other provinces should not be in any way restricted, would that be advantageous or otherwise to the northwestern paper manufacturers?

Mr. Nelson. So far as the wood pulp and pulp wood is concerned I could see very little advantage; so slight that I would not be able

to judge at this time whether it would be advantageous or not.

The CHAIRMAN. You think there is a sufficient quantity of spruce wood standing in Minnesota to furnish an ample supply in the future of pulp wood for ground wood both to the Minnesota mills and the Wisconsin mills?

Mr. Nelson. That would depend on the increased demand for pulp and its products. I have understood that there is more pulp wood in the State of Minnesota than Mr. Backus stated here to-day.

The CHAIRMAN. What do you mean by Mr. Backus's statement. The figures that he gave, do you mean?

Mr. Nelson. Yes, sir.

The CHAIRMAN. The estimate that he gave did not refer to the pulp wood of Minnesota at all.

Mr. Nelson. I understood that his eleven million five hundred thousand and odd cords referred to the pulp wood in Minnesota.

The CHAIRMAN. No.

Mr. Nelson. On the south side of the Rainy Lake basin?

The CHAIRMAN. No; the pulp wood in the United States in the Rainy Lake basin. The pulp wood runs east of the Rainy Lake basin, doesn't it?

Mr. Nelson. Oh, yes.

The CHAIRMAN. He only referred to the pulp wood in the Rainy Lake basin in the United States, not the entire pulp wood supply of Minnesota.

Mr. Nelson. Yes. We have always estimated that there is a much larger quantity than that in Minnesota, but it is general. We do not know specifically the amount, as none of us have made the examination that Mr. Backus has for the supply tributary to his mill.

The CHAIRMAN. Of course, Mr. Nelson, it was not very many years ago that they located their first paper mill in Wisconsin. It was a very few years ago that they located some of their new paper mills there. And yet they have been paying now \$11 a cord for spruce wood delivered f. o. b. cars at the station at the mill.

Mr. Nelson. Yes, sir.
The Chairman. They thought they had plenty of spruce wood when they located their mills there, near by. You may find yourselves in the same predicament.

Mr. Nelson. Of course, the paper industry of Wisconsin has increased very rapidly, and that is the reason why I say that it will depend on the demand for paper as to the length of time our pulp wood will last.

The CHAIRMAN. Do you remember what has been the percentage of increase in the amount of, say, for instance, news-print paper manufactured in the United States within the last ten or twenty years?

Mr. Nelson. No: I could not answer that question even approxi-

mately.

The CHAIRMAN. Of course, you know it has been an enormous in-

Mr. Nelson. Yes, sir.

The CHAIRMAN. From the increase in the number of papers and the size of the papers?

Mr. Nelson. Yes, sir; and the number of mills built trying to keep

up with the demand.

The CHAIRMAN. Don't you apprehend there will be just as rapid an increase in the future as there has been in the past?

Mr. Nelson. I see no reason why there should not be, unless it

should be caused by adverse legislation.

The CHAIRMAN. Do you think adverse legislation will affect the quantity of paper that will be used, or any legislation will affect it? Mr. NELSON. It affects other business. I do not see why it should

not affect that.

The CHAIRMAN. It might affect the place of production, possibly.

Mr. Nelson. Yes.

The CHAIRMAN. So far as you know, are the paper manufacturers in Minnesota perfectly satisfied with the outlook as to the future sup-

ply of spruce pulp wood in the United States?

Mr. Nelson. Probably I can answer that better by stating our own company's attitude. We commenced manufacturing about eighteen years ago. We did not own a cord of spruce timber. We have no fear of the supply being exhausted in the near future.

The Chairman. What are you paying for pulp wood now?

Mr. Nelson. That depends on where we get it. We paid as high as \$6 a cord last year. It being a very favorable winter and the demand for logs not being so great, there was an oversupply put in. Of course, we loaded up heavier than we otherwise would. This year we will not pay so much. We do not know yet what we will pay.

The CHAIRMAN. You say you have been paying for the last year

about \$6?

Mr. Nelson. Yes, sir.

The CHAIRMAN. Where, delivered at the mill?

Mr. Nelson. No; we pay that for it on board cars at different places.

The CHAIRMAN. At the place of origin?

Mr. Nelson. Yes; at certain places. Of course, where the freight was more we would pay less. We usually followed the delivered price at our mill, but sometimes the delivered price would be at Duluth, and that would be about \$7. Where the freight rate was 24 and 3 cents we paid \$6. That would make it cost seven or a little more, delivered to the mill.

The CHAIRMAN. What would that make it, about, to the man who

delivered it f. o. b. cars?

Mr. Nelson. It would be \$6, if he was where it would be 2½ or 3 cents. Three cents makes about \$1.20. It weighs about 4,200 pounds.

The CHAIRMAN. Who do you buy your pulp wood from?

Mr. Nelson. Probably a hundred different ones. We buy of whoever gets out any.

The CHAIRMAN. I mean the character of men.

Mr. Nelson. Farmers and men that make a business of small jobbing, merchants and men that get out cedar poles.

The CHAIRMAN. Do you get much from lumbermen?

Mr. Nelson. Very little. The lumbermen do not seem to care to bother with it.

The CHAIRMAN. Do you get much from the men who are getting out cedar posts and ties?

Mr. Nelson. Not a great deal.

The CHAIRMAN. Does most of it come from settlers who are clearing land?

Mr. Nelson. It comes largely from settlers clearing lands, who may

sell it to the merchants and then they sell it to us.

The CHAIRMAN. You do not buy directly from the settlers, but it comes from settlers clearing land, very largely?

Mr. Nelson. Yes.

The CHAIRMAN. Is that land being cleared for agricultural purposes?

Mr. Nelson, Yes.

The CHAIRMAN. What do they raise on that land besides potatoes? Mr. Nelson. They raise wheat and corn and grass.

The CHAIRMAN. Is it profitable farming?

Mr. Nelson. They seem to make a living on it. We don't know that the identical land they cut the spruce from is what they clear up. We know that they cut that spruce off from land to get money out of it. It may not be cut off of land that they are clearing at the time.

The CHAIRMAN. The point I was getting was as to whether, if this land is profitable for agricultural purposes, settlers will not be attracted to it and purchase it or take it up, and, of course, when the settler is on a farm that way, as a rule the first thing he wants to do is to get rid of the forests, isn't it?

Mr. Nelson. Yes, sir.

The CHAIRMAN. Of course, the demand for agricultural land is invading territory that a few years ago was considered unfit for agricultural purposes.

Mr. Nelson. Yes, sir.
The Chairman. If you had a great accession of settlers in this

spruce territory, the spruce wood would not last long. would it?

Mr. Nelson. No, sir; I do not consider spruce land, as a general thing, good farming land, although I know of spruce land that raises fine hay, and some of it grows on high land. It does not seem to have any particular place to grow. It grows in bunches. Sometimes you will find it around the edge of marshes, tamarack growing in the marshes where it is wet and spruce growing on the drier land.

The CHAIRMAN. The black spruce is very apt to grow on low land,

is it not?

Mr. Nelson. I have seen the black spruce growing everywhere.

The CHAIRMAN. Where does most of the spruce grow? On low

land or high ground?

Mr. NELSON. The tamarack grows on low land. It can not grow anywhere else. The spruce can grow on both low land and high land in Minnesota. Often you will see a fringe of tamarack around a swamp and in the swamp, and occasionally spruce will be mingled in with it. After the tamarack stops growing, the spruce will grow closer together.

The CHAIRMAN. Why, then, do you think that this spruce land is

not available for agricultural purposes?

Mr. Nelson. Well, I did not mean to say it was not available, but it is not so desirable. I said it will grow good grass, and some of it will grow grains.

The CHAIRMAN. I am still a young man-

Mr. Nelson. So am I.

The CHAIRMAN. Yes; and I can remember very distinctly when land in the corn belt in Illinois went begging at \$20 and \$25 an acre after I was grown to manhood. It now is hard to secure at \$150 an acre. Of course that means that less available land is invaded for agricultural purposes?

Mr. Nelson. Yes.

The CHAIRMAN. A few years ago the cut-off pine lands of Wisconsin and Michigan were considered valueless, and much of it reverted to the State because people would not pay taxes on it. That land is now considered agricultural land, a great deal of it. Isn't it quite likely that the same thing will occur in Minnesota. especially since we have commenced to agitate so much the question of the drainage of these lands?

Mr. Nelson. It has already occurred in Minnesota.

The CHAIRMAN. If it occurs so that settlers come into this spruce country of yours, how long do you think the spruce forests will last! Any longer than the hard-wood forests of Ohio and Indiana have lasted!

Mr. Nelson. Probably not. As soon as the settlers want the land that the spruce is growing on, the spruce has got to be cut off. There has been an advance in land in Minnesota proportionately greater than that you mention in Illinois. For instance, in my short life we have cut the timber off of thousands of acres of land and stopped paying taxes on it. Then it became wanted, and we thought we were doing well in selling some 20,000 acres for \$1.75 an acre. That land has since sold for \$10 an acre, and that is a greater ratio of increase than Illinois. But that does not apply particularly to spruce, although there was some spruce grew on considerable of it. The spruce is farther north and growing usually on different land from the pine, although occasionally you will find the spruce and pine growing together and both apparently doing well.

The CHAIRMAN. Is not the spruce, as a matter of fact, more likely

to grow on rich land than the white pine?

Mr. Nelson. No; I have seen white pine growing on rich land. White pine grows on richer land than Norway does. Spruce grows on both.

The CHAIRMAN. You think if the Government should adopt no policy of forest conservation and should make no provision for the protection of spruce forests in the future and make no arrangement by which spruce could be exported from Ontario, that the paper mills of the Northwest would still have an ample supply of spruce pulp wood at home?

Mr. Nelson. No, sir; I do not think that.

The CHAIRMAN. I thought that was what you stated.

Mr. Nelson. I think that the Government ought to use every rea-

sonable means possible to conserve our forests.

The CHAIRMAN. They ought to do that regardless of the supply Mr. Nelson. Yes, sir. If we do that we will have a better supply of spruce wood than of some things that we need so badly. We have great iron mines in Minnesota and we expect they will be exhausted. Iron ore can not be produced as quickly as spruce. I do not wish to be understood as saying that our supply is inexhaustible.

The CHAIRMAN. Is there any change in the situation up here as to

wages in the paper mills or in the forests?

Mr. Nelson. There are a great many idle men; more this year than we have ever had before, on account of the depression in the lumber business; and wages will be reduced this winter very materially.

The CHAIRMAN. That is in the forests?

Mr. Nelson. Yes, sir.

The CHAIRMAN. Is there likely to be—I do not wish to ask an im-

pertinent question—a reduction of wages in the mills?

Mr. NELSON. There will be no reduction there, I think, but the man that gets out the pulp wood will work for less than he did last winter.

The CHATRMAN. You look for a lower price on pulp wood next

year, I suppose?

Mr. Nelson. Yes, sir. We are not making contracts this year at anything like we did last year, because we carried over a large amount, and we find our competitors have done the same, and we have all been short of water. We have not been able to grind the wood that we had already put in.

The CHAIRMAN. You all have a large stock of wood on hand, as I

understand?

Mr. Nelson. Without any exception, so far as I know, we all have large stocks. That is for two reasons, first, last winter was such a very favorable winter for putting in the wood and this summer has been so very dry that we could not grind it.

The CHAIRMAN. Is there any change in the paper market recently? Mr. Nelson. Yes, sir; we are getting more money for paper now

than we did when we met before.

The CHAIRMAN. That is on account of the drought? Mr. Nelson. On account of the demand and supply.

The CHAIRMAN. There is no increased demand for paper, is there?

Mr. Nelson. There is in our territory.

The CHAIRMAN. No increased use of paper?
Mr. Nelson. An increased price. We increase the price just as fast as we can, and whenever the demand is in excess of what we have got to sell, we will get as much for it as we can.

The Chairman. What is the price of ground wood now?

Mr. Nelson. I do not know of anyone that has got it to sell. I have been trying to buy it for some time. I bought it last spring at \$30 a ton.

The CHAIRMAN. There are a lot of mills that have to sell it if they

make any. They don't do anything else with it.

Mr. NELSON. I think they are all sold out.

The CHAIRMAN. Do you get all your pulp wood from Minnesota?

Mr. Nelson. Yes, sir.

The CHAIRMAN. Do you know whether there is any pulp wood imported here from Ontario and other parts of Canada by any of the mills?

Mr. Nelson. No; I am sure there is not.

The CHAIRMAN. Have you made any investigation of the spruce

forests out West?

Mr. NELSON. Only in a general way, in buying timber lands out We find considerable spruce there that is of a quality to make paper of.

The CHAIRMAN. What part of the State do you get most of your

pulp wood from?

Mr. Nelson. We get it from the northern part of the State. We get some put into the Mississippi River, and it is floated down to our mill. We purchase of the M. and I. Railroad, running from Brainerd.

The CHAIRMAN. What is the M. and I. Railroad?

Mr. Nelson. Minnesota and International, a part of the Northern Pacific system, which runs from Brainerd to International Falls. We get the largest part of our supply along that line, although we purchase on the Great Northern and on the Northern Pacific main line. The M. and I. is a branch of the Northern Pacific.

The CHAIRMAN. Do the two Wisconsin companies that buy pulp wood buy along this same line or go farther east?
Mr. Nelson. They buy right along with us.

The CHAIRMAN. In competition?

Mr. Nelson. Yes, sir.

The CHAIRMAN. With the lumber business at such a very low ebb and with the mills stocked up fully on pulp wood, there is likely to be very slight demand for pulp wood this winter, isn't there?

Mr. Nelson. My impression is the demand will decrease 30 or 40

per cent from what it was last year.

The CHAIRMAN. Is there any difference in the value of black spruce

and white spruce in the making of ground wood?

Mr. Nelson. We do not consider there is difference enough to make any change in the price or in purchasing it.

The Chairman. Is what you get mostly small wood.

Mr. Nelson. Yes; we get largely small wood.

The CHAIRMAN. Do you take it down as low as two and a half inches?

Mr. Nelson. Our contracts call for 5 inches, but we accept it without question if it is 4 inches. When it gets down to 3 we do not want it, but we often take it at some price. There is so much waste barking that small wood that the loss is very much greater than it is on the larger.

The CHAIRMAN. We saw a great deal of it that was not over 24 inches, and some of it that was not that large, at the Wisconsin mills.

Mr. Nelson. We have had it at our mill only 2 inches, but it is not profitable to handle at all.

The CHAIRMAN. There is quite a difference in waste between that and large wood?

Mr. Nelson. Oh, yes; in the expense of barking.
The Chairman. The expense of rossing or barking besides the waste?

Mr. Nelson. Yes, sir.

The CHAIRMAN. Why don't the lumber men when they are cutting forests up here, furnish you with some pulp wood. Isn't it profitable to them?

Mr. Nelson. Well, the lumber men have connection with paper

mills.

The CHAIRMAN. Certainly not all of them.

Mr. Nelson. No, not all of them. But there is a friendly feeling between the Weyerhaeuser interests and the Northwest Paper Company. The Weyerhaeuser people have large amounts of pine land. Mr. Walker has a large amount of pine land and I have some. Spruce grows on it, and between us we manage to run the Hennepin Paper Company.

The Chairman. Is Mr. Walker interested in the Hennepin Paper

Company ?

Mr. Nelson. Yes, sir.

The CHAIRMAN. Do you furnish your mill there with some pulp wood from your lumbering operations?

Mr. Nelson. Very little. The CHAIRMAN. Why not?

Mr. Nelson. We buy it of parties that have it for sale.

The CHAIRMAN. Of course, it is a question of profit?

Mr. NELSON. That is it.

The CHAIRMAN. That is the reason I asked; why isn't it profitable for you in lumbering operations to save the smaller wood for pulp wood?

Mr. Nelson. Well, it is such a small amount that it is not profitable to save it. We can buy it cheaper than we can save it. Occasionally we take a small amount.

The CHAIRMAN. In lumbering you saw it down to about 5 inches? Mr. Nelson. Some millers saw 5 inches. I never found it profitable to saw as low as 6 inches. We usually make our contracts requiring the logger to cut as low as that; get him to cut 8 and 10 inch timber.

The CHAIRMAN. When you lumber and do not saw down as low as 6 or 7 inches, is it or is it not profitable to save that? There must

be more or less of the timber that runs 6 or 7 inches.

Mr. Nelson. It depends more or less on the expense of saving it. At times it would be and at other times it would be a loss to attempt to save it.

The CHAIRMAN. What expense is there about saving it?

Mr. NELSON. At times the conditions may be such that it would be profitable and at other times the conditions may be such that it would be a loss to attempt to save it.

The CHAIRMAN. What are those conditions?

Mr. Nelson. It depends on where it is cut and where it is to be hauled and how much of it there is. If there is a small amount of it there would be a loss. If there is considerable of it it could be handled profitably.

The CHAIRMAN. As I understand from your statement, as a matter of fact in lumbering operations the small wood is not usually saved here for pulp wood. That is, the ends or the limbs or anything of

that sort?

Mr. Nelson. Only to a very limited extent. When the lumberman gets the saw log cut off, the butt of the tree, and he runs it up to, say, 6 inches, the top is very knotty and it is only worth about half what good pulp wood is, and it does not pay to bother with it.

# STATEMENT OF WILLIS J. WALKER, OF MINNEAPOLIS.

(Sworn and examined by the chairman.)

The CHAIRMAN. Give your name. Mr. WALKER. Willis J. Walker.

The CHAIRMAN. You are a son of Mr. T. B. Walker?

Mr. WALKER. Yes, sir.

The CHAIRMAN. He is one of the best-known lumber experts—timber experts—in the Northwest, isn't he?

Mr. Walker. Yes, sir; I think he is.

The CHAIRMAN. What can you tell us in reference to the forests that may be used for pulp-wood purposes, especially in Minnesota?

Mr. WALKER. As I understand it, the only wood that is really available at the present time is the spruce, although, of course, a while ago they did use poplar for certain kinds of paper. The territory that I am most familiar with lies west of Hibbing. That is on the Iron

Range. The spruce actually begins in spots this far south in the swamp—that is, scattered spruce, but it does not get to be big enough to really be considered until you get above Little Falls toward the Brainerd country. There was considerable in that which has been very largely cut out now. From Brainerd to Leech Lake and west of that territory it grows all over, but in small amounts. It is only in bunches through the swamps. And along the tributaries of the Crow Wing River there is considerable in bunches through there, but it never has come down in very large quantities. It is not a heavy spruce country at all. North of that country between the Great Northern road, passing through Bemidji and Park Rapids, bounded on the east by Leech Lake and the west by the White Earth Reservation, it is only in comparatively small quantities. That is a Norway country, which is sandy without large swamps, a country we are logging in at present, right through there. The timber is better than three-fifths Norway and the soil of sandy nature, so that the spruce is quite scattering. East of there between that territory and Leech Lake around on the reservation there is not much spruce. That is a high pine country around the reservation. Of course, there is spruce in spots. Beginning on the east side of Leech Lake, down the Leech River and the Pokegama and through to Hibbing, there is really quite a large quantity of spruce in bunches, but the real spruce country begins north of the Great Northern road, reaching from Croston to Duluth, across between Leech Lake and Winnebegoshish and from there through that country north; in fact, clear through to the boundary outside of the big swamp, is a big growth and quite a large percentage of spruce in bunches. A large amount of the land is low through there and favors the growth of the spruce, and that reaches westerly to pretty near the Red Lake. North of Red Lake you find the swamp country, between Red Lake and the boundary. I have never been directly north from Red Lake, but we have had cruisers through there and they tell us there is a good deal of spruce on the islands in the swamps through there. We were looking for it on a saw-log proposition and there wasn't enough, so that we have operated in that country. It is largely muskeg swamps with tamarack and bunches of spruce in spots.

The CHAIRMAN. The low, wet ground usually has tamarack? Mr. Walker. Yes. That will grow on even a floating muskeg.

The CHAIRMAN. What is muskeg?

Mr. Walker. Muskeg is a floating bog and ground that is so soft that you will break through it. Quite often it is so soft that you will go through into the water under it. Tamarack will grow even in that in spots.

The Chairman. Around the edge of that the spruce grows?

Mr. Walker. It grows around the edges and up onto the side hill. Where it gets very wet the spruce won't grow clear out into that like the tamarack does. The main growth of spruce is in bunches in through the swamps that are hard bottom and on the side hills reaching up from these swamps, although the scattered growth does grow all through the timber, but it is not the main bunch of it. The real spruce land is low, swamp lamp and the side hills reaching down into it.

The CHAIRMAN. You do not find very much spruce that is fit for saw logs, do you?

Mr. WALKER. No; it is not a large quantity, though cutting through a large territory, and cutting through as we have at our mill where we are taking pretty nearly everything, we get quite a sprinkling of small logs.

The CHAIRMAN. Is that young spruce or old spruce?

Mr. WALKER. I could not say as to that. I always took it to be spruce that grew under the more favorable conditions. It seems to be the spruce on the better lay of ground, or, perhaps, more room to grow in. I do not know as to the age. I presume it is older than some of it, but I think it is more a question of opportunity to grow.

The CHAIRMAN. Most of the spruce up here is small?

Mr. WALKER. Yes; it is small growth timber.
The CHAIRMAN. Will it grow large if it has favorable conditions? Mr. WALKER. I think it will, because some of it gets pretty good size. Fifteen or 16 inches you see them up there. Those are scattered trees. I never saw a growth of spruce where it was all large.

The CHAIRMAN. If you have a white pine forest with trees 6 or 7 inches in diameter you would hardly think it profitable to cut it if you

owned it, would you?

Mr. WALKER. I never have seen a bunch quite as small as that. We have cut white pine that went twenty-three to the thousand, and twenty million to the bunch. That would be pretty nearly that size. You have got to cut it. There is almost nothing else you can do with it, because such a growth means it is growing very close together, and the trees have no room, so that I don't believe it would ever grow very large.

The CHAIRMAN. Are the Minnesota forests disappearing or is there apparently as much in sight now accessible as there ever has been?

Mr. WALKER. Of course, they are steadily disappearing. The CHAIRMAN. I am referring to the point of accessibility.

Mr. WALKER. They are opening up new timber with railroads and one thing and another about as fast as they are cutting it off. The logging territory is changing. It is continually advancing north.

The CHAIRMAN. Is there much virgin forest left in Minnesota?

Mr. WALKER. Yes; there is a great deal.

The CHAIRMAN. Where is it?

Mr. Walker. West of Leech Lake, lying between Leech Lake and Itasca Lake, there is several hundred million that has not been touched. On the White Earth Reservation west of that there is quite a large quantity. I never have had it estimated, but loggers tell me there is several hundred millions in there. Straight east of Red Lake there is quite a large territory, between Red Lake and the Big Fork country, that has never been touched. Then there is a bunch of seven or eight hundred million in the neighborhood of Grand Marais, largely white pine. North of Hibbing and of the Iron Range there is a large territory that has never been touched.

The CHAIRMAN. Do you think there has been very much destruc-

tion of forests up here this summer by fires?

Mr. Walker. No, I do not believe there has. From what I saw of the country where the fires ran through and the reports I get from cruisers through that country, there was enough of the green leaves and the brush and trees to hold the fire onto the ground. It did not run through the tops and through the timber itself. So that it was a ground fire and there was practically no timber, so far as I have been able to hear, killed. That was due to the time of year that it burned.

The CHAIRMAN. Have you any opinion as to the effect of removing the tariff on pulp wood, or other lumber or timber product, in

regard to the effect on the destruction of the American forests?

Mr. Walker. That is a pretty big question. I should think that letting in the wood would naturally reduce the value of wood in this country, so that there would be more of it left exposed of the spruce to burn up, because it is a question now of how far you can haul the stuff and get enough out of it to pay the expenses.

The CHAIRMAN. I do not quite understand what you mean when

you say more left of the spruce to burn up.

Mr. WALKER. I mean in our own case where we are logging through our white pine we can not afford to cut the spruce wood except in particular cases, because the cost of logging that scattered spruce and taking it out to the railroad would be more than we get for the product.

The Chairman. Can't you afford to do it where it is cut for saw

logs

Mr. Walker. Where it is cut for saw logs it is worth more to us as

logs than it is for pulp.

The Chairman. But you can afford to take it out for saw logs

where it is of sufficient size, can't you?

Mr. WALKER. Oh, yes; wherever we are cutting other timber we can afford to take the spruce saw logs, because spruce makes good lumber.

The CHAIRMAN. As a matter of fact, you do not cut very much pulp wood, do you?

Mr. Walker. Almost none.

The CHAIRMAN. So you do not do it now anyhow

Mr. WALKER. No.

The CHAIRMAN. You leave it to burn up?

Mr. WALKER. We leave it in the hope that we can use it at some later date.

The CHAIRMAN. As a matter of fact, it does largely burn up, I suppose?

Mr. WALKER. I think that is the future of it, through a cut-over

country that way.

The CHAIRMAN. Isn't there any way that can be devised by which

forest fires can be prevented from spreading?

Mr. WALKER. In this State I do not believe it is possible. In California we are keeping crews of men clearing up around the trees and through our timber there because there is practically no underbrush, but in this country if you stop a fire, keep it out of a bunch of timber for several years until the débris gets very thick, when the dry season comes on you lose timber and everything. I think it would be the destruction of the timber if you could stop it for a few years. It is only in reasonably frequent burning that we can save the valuable timber.

The CHAIRMAN. The Forestry Service takes considerable cedit to itself because they do not have many forest fires in the national forest reservations. Why can not the same thing be done in the lands of

Minnesota ?

Mr. WALKER. I think if they have had a small amount of fire in Idaho and Washington on their reservations, they are lucky; that is all. In California it can be done because the dry season kills the brush. The brush can not grow through the dry season, so that the fires there work along the ground.

The CHAIRMAN. They have large forest reservations in Idaho and the other Northwestern States, much larger than they have in Cali-

fornia.

Mr. Walker. Yes.

The CHAIRMAN. They have had very few forest fires this last season, whereas there have been immense forest fires, I guess, in this State. There certainly have been in Wisconsin.

Mr. Walker. They have had very large fires in the northeastern part of the State. When a heavy forest fire starts through a heavy undergrowth back of the wind I think it is a question of getting away from it. I do not think anything can stop it until the conditions change. We had last year some logs in the woods around our mill and the fires came earlier than we expected, and it took 500 men, about, to save what we could of those logs and our camp, to say nothing of the timber.

The CHAIRMAN. Of course you can not put a fire out in a forest where it is burning and everything is favorable, but couldn't you have division lines in some way where the fire could be stopped?

Mr. WALKER. If you could afford to cut wide paths through the forest and keep the brush out that burns worse than the timber, I presume it could be stopped in that way—by very wide lanes. It would take very wide lanes and they would have to be kept very clear of brush. I think cutting it up in that way would be effectual.

The CHAIRMAN. You might cultivate it and raise potatoes on it. Mr. WALKER. I think there would have to be something of that

kind to make it practicable. They can raise potatoes in that kind of clearings. That country will raise good vegetables.

The CHAIRMAN. Have you large quantities of land out West?

Mr. WALKER. In California; yes, sir.

The CHAIRMAN. What does that consist of?

Mr. WALKER. It is a mixed growth of yellow pine—that is, the Western yellow pine, fir, white spruce, and a scattering of cedar.

The CHAIRMAN. Do they use fir any for pulp wood, do you know? Mr. WALKER. What they call the white spruce there, I understand, is available for pulp. In fact, they are using it at several points there now. There is one mill on the Southern Pacific at Royaltown, I think it is, logging that spruce.

The CHAIRMAN. Do they make ground wood?

Mr. WALKER. Yes; ground wood. They say it is practically the same as our white spruce.

The CHAIRMAN. How about the fir; is that what they call Oregon

Mr. Walker. Yes; the same thing, only growing a little farther My understanding has been that that won't make paper unless it is boiled and treated to take out the pitch. That is being done farther north in Oregon.

The CHAIRMAN. It is full of pitch?

Mr. WALKER. Yes, relatively. Of course, it is not like the southern pine, but there is quite a large amount of it.

The CHAIRMAN. Do you have any forests in Idaho or Montana?

Mr. WALKER. No; nothing.

The CHAIRMAN. Are you familiar out there? Mr. WALKER. No; I have only been through it. The CHAIRMAN. How about Canada, Ontario?

Mr. WALKER. We have nothing in Canada. Only in Minnesota and California.

The CHAIRMAN. How much of the forests do you people own in Minnesota?

Mr. WALKER. Of course, we have a good deal of the cut-over land; we have, I should say, a couple of hundred million left.

The CHAIRMAN. A couple of hundred million feet?

Mr. Walker. Yes.

The CHAIRMAN. What would be the acreage of that?

Mr. WALKER. I should judge that would cut about 5,000 feet to

The CHAIRMAN. That is land you are holding for logging? Mr. WALKER. We are logging it now; we are into it.

The CHAIRMAN. And sawing it up?

Mr. Walker. Yes.

The CHAIRMAN. Do you get out ties or poles or anything of that sort?

Mr. Walker. We have at times, under some particular conditions, but we do not make a business of it.

The CHAIRMAN. Is any of your land in this spruce-wood territory in the northern part of the State?

Mr. WALKER. In two townships only.

The CHAIRMAN. You have not logged any of that, have you?

Mr. WALKER. No; it is not touched.

The CHAIRMAN. You haven't cut into it at all?

Mr. WALKER. No.

The CHAIRMAN. That is not available for saw logs, is it?

Mr. WALKER. Yes; it is now by coming down the Big Fork River.

The CHAIRMAN. I mean the timber. Mr. WALKER. It is saw-log timber.

The CHAIRMAN. It is not like ordinary spruce timber up there?

Mr. WALKER. No; it is three-fifths big white pine.

The CHAIRMAN. Is there a good deal of good white pine up there

on the higher land?

Mr. WALKER. There is not a large supply of what you would call first-class white pine, such as they used to get upon Pokegoma Lake and the head of the Swan River. In that northern country the white pine is not first class, but it is good, fair, average pine, and there is a good deal of white pine through there of that grade.

The CHAIRMAN. Do you suppose your father would be willing to testify before the committee, tell us his opinions and impressions in regard to the present future available supply of forest products in

the United States?

Mr. Walker. I feel sure he would.

The CHAIRMAN. We would be very much pleased to have him do so, and probably could come back here for that purpose if necessary.

Mr. WALKER. He has put in a great deal of study and work on that one question, and I know he would be glad to give whatever information he could.

The CHAIRMAN. That is a service he might well, and I think pleasantly, render to the coming generations. I wish you would ask him.

Mr. Walker. Yes. He went out of town this morning. I think

he will be back some time this afternoon.

The CHAIRMAN. If we don't take his testimony before we go away. and I do not know just when that will be, we will come back this way if you will talk with him about that.

Mr. WALKER., Yes, sir.

## STATEMENT OF F. B. LYNCH, OF ST. PAUL, MINN.

(Sworn and examined by the chairman.)

The CHAIRMAN. Give your name.

Mr. LYNCH. F. B. Lynch.

The CHAIRMAN. Your business?

Mr. Lynch. Lumberman.

The CHAIRMAN. What mills are you connected with?

Mr. Lynch. The mills belonging to the Union Manufacturing Company, in Canada.

The CHAIRMAN. Are all of your mills in Canada?

Mr. Lynch. All of our mills are in Canada. I have some timber interests on this side, but not as a manufacturer.

The CHAIRMAN. Are you familiar with the forestry conditions in that part of Canada just north of us here?

Mr. Lynch. North and west of us; not east.

The Chairman. North and west of Lake Superior?

Mr. Lynch. Yes, sir. The Chairman. Will you describe the forestry conditions to us in your own way, as well as you can in a general way.

Mr. Lynch. If you would explain a little bit more just what you

want. It is a pretty big question.

The CHAIRMAN. Of course, what we are especially interested in is the question of the supply of pulp wood which, in the main, reduces itself to spruce wood, I think, in this part of the country. Spruce

forests, in other words.

Mr. Lynch. In the region north of Lake Superior and in the western part of the Province of Ontario, the northeastern part of Manitoba, the eastern part of the Province of Saskatchewan, there are very large areas of land which have a great deal of small spruce timber. Part of it is fit for saw timber and part of it is only good for pulp wood. As to the exact number, or even the approximate number of acres that there is in that area I am unable to say. There is a great deal of it.

The Chairman. Do you know whether that information has ever

been collected by anybody?

Mr. Lynch. There has been nothing definite ascertained.

The Chairman. How far west do the forests extend before the break comes?

Mr. Lynch. The line of the Red River is the boundary of it on the east and as far north as Lake Winnipeg; north and west of Lake Winnipeg it extends nearly to the Great Slave Lake in scattered tracts, not solid forests.

The CHAIRMAN. How far west does it extend on our north boundary line?

Mr. Lynch. The west end of the Lake of the Woods would be

practically the end of it, the Red Lake.

The CHAIRMAN. West of that it is what?

Mr. Lynch. West of that it is practically a prairie country.

The CHAIRMAN. What do the forests up there consist of in the main?

Mr. LYNCH. In the region that I have spoken of, almost exclusively spruce. In the region directly north of Lake Superior there are considerable bodies of white pine.

The CHAIRMAN. Where are your mills up there?

Mr. Lynch. Our mills are all west of the territory that I have spoken of, except one mill 350 miles northwest of Winnipeg.

The CHAIRMAN. What character of timber do you use in your

mills?

Mr. Lynch. Spruce.

The CHAIRMAN. You log spruce? Mr. Lynch. Yes, sir; we log spruce.

The CHAIRMAN. Is there a considerable quantity of large spruce there?

Mr. Lynch. Well, in that area there is probably a billion feet of spruce that is suitable for saw timber.

The CHAIRMAN. How large?

Mr. Lynch. As we express it, running fifteen or sixteen logs to the thousand, that would be spruce timber 12 inches at the butt and upward.

The CHAIRMAN. Is that white or black spruce?

Mr. Lynch. It is mostly black spruce.

The CHAIRMAN. What proportion would you estimate of that spruce is fit for saw logs, as compared with the whole?

Mr. Lynch. I have given you the proportion that I think is fit for

saw logs, a billion feet.

The CHAIRMAN. That is the amount, but what proportion? Can you give us an estimate of about the proportion?

Mr. Lynch. There is probably twice as much more, possibly three

times, that would be fit for pulp wood.

The CHAIRMAN. Does the saw-log spruce grow on higher ground?

Mr. Lynch. No, sir; mixed in.

The CHAIRMAN. This spruce you speak of for pulp wood, won't it grow larger?

Mr. Lynch. It is very slow growth.

The CHAIRMAN. How old do you estimate these saw logs to be?

Mr. Lynch. Probably 50 to 75 years old.

The CHAIRMAN. Some gentleman stated here a while ago that he

thought some of that small spruce was 150 years old.

Mr. Lynch. It is possible, but I would think that was even a slower growth than I have mentioned. We can estimate that approximately by burned areas and the growth over burned areas. There is a region up there that I know of where there is now a considerable body of spruce timber that would be suitable for pulp wood that was burned over, the Indians say, fifty years ago, and the remains of the old burned logs are still there in some cases.

The CHAIRMAN. That would be what sized spruce? Mr. Lynch. That stuff would run about 8 inches.

The CHAIRMAN. Is that in very low ground or fairly high ground? Mr. Lynch. Almost all spruce grows on rather low ground. The higher areas are apt to be barren in that country.

The CHAIRMAN. Do you think spruce timber there would grow to

be saw logs in fifty years?

Mr. Lynch. Well, I said from fifty to seventy-five. seventy-five years would bring it to 10-inch stuff at the butt.

The Chairman. I suppose it is an easy matter to ascertain the age

of these logs that you are cutting?

Mr. Lynch. I presume it would be for a skilled forester who is used to doing that.

The CHAIRMAN. Are any of your mills operated with water power?

Mr. Lynch. No, sir.

The CHAIRMAN. Is there much water power up there?

Mr. Lynch. No, sir; not very much.

The CHAIRMAN. How wide a stretch is that now; what is the distance from the west end of Lake Superior to the Lake of the Woods, where the forests cease?

Mr. Lynch. I think about 200 miles.

The CHAIRMAN. How far north would those forests extend?

Mr. Lynch. I don't know. They extend a long ways.

The CHAIRMAN. You don't know where the north boundary is?

Mr. Lynch. I don't know where the north boundary is; no, sir. have seen cruisers who told me that there were heavy bodies of light spruce timber east of James Bay, which is probably 300 miles north. The CHAIRMAN. Is it practicable to bring that spruce from north

of the height of land over this way for use?

Mr. Lynch. I do not think so, except by rail.

The CHAIRMAN. The rail facilities for getting into that forest are not very numerous, I judge.

Mr. Lynch. The only way you can get in there now is with a canoe. The CHAIRMAN. Is that land up there subject to be used for agricultural purposes, where the spruce is?

Mr. Lynch. This extreme northern territory, no, sir; I don't

think so.

The CHAIRMAN. How will they get the spruce out of there unless

they carry it north, drive it north on the streams?

Mr. Lynch. Well, there are several railroads contemplated into the Hudson Bay territory now and one being built. It would be a comparatively small matter, I presume, to get the stuff out after they build that.

The CHAIRMAN. That is, they could float it down on the streams

and pick it up.

Mr. Lynch. It could be floated down to the mouths of the streams and milled there and taken across to the railroads.

The CHAIRMAN. But would it be practicable to bring it as pulp

wood from there to here?

Mr. Lynch. I don't think so. It would be absolutely impossible to raft it across Hudson Bay.

The CHAIRMAN. Why?

Mr. Lynch. A raft would not live in those waters. You could not build one that would live.

The CHAIRMAN. Are the waters so turbulent? Mr. Lynch. The bay is very stormy; yes, sir.

The Charman. What supply of pulp wood is there up there which in any event might be utilized by the mills in the United States if there were no prohibition?

Mr. Lynch. I do not knew.

The CHAIRMAN. That is what we are very anxious to find out, and

I do not know whether anyone knows or not.

Mr. Lynch. I do not believe anyone knows. There is a very large amount of it, but I do not think anyone has any more than just an idea that there is a very large amount of it. It is a very wild, desolate country. It has only been gone over by cruisers and Indians.

The Chairman. Do you have any judgment as to whether that

supply of spruce wood is practically inexhaustible?

Mr. Lynch. I believe it is so considered; yes, sir.

The CHAIRMAN. I mean would it reproduce itself in that country fast enough to meet a great demand if cut off for immediate use?

Mr. Lynch. No; I do not believe any country is inexhaustible in

that sense.

The CHAIRMAN. Of course, here where we cut off a forest it is not very apt to go back to a forest; it is very apt to be utilized for other

purposes.

Mr. Lynch. Well, I do not think that is true of it there. I think that that northern country will be settled but very slowly. The soil is poor, the chimate is severe, and I think it will be a great many years before there will be any number of settlers up there; but how fast that timber would grow up again is something that would be very hard for me to even estimate on. The area that I have spoken of is a couple or three hundred miles west of there, where the soil is good and the climate is not as rigorous as that east.

The CHAIRMAN. Do those streams up there freeze solid in the win-

ter time?

Mr. Lynch. Do you mean to the bottom of them?

The CHAIRMAN. Do they continue to flow during the winter?

Mr. Lynch. Oh, yes, sir.

The CHAIRMAN. Streams that run north?

Mr. Lynch. Yes.

The CHAIRMAN. So that if they have water power there it might be used during the winter?

Mr. Lynch. Yes, sir.

The CHAIRMAN. It has been suggested to us that on some of those streams up there the weather was so severe that they were frozen practically solid during the winter.

Mr. LYNCH. I can speak from personal knowledge of the country 350 to 400 miles northwest of Winnipeg. That is not the case there.

The CHAIRMAN. What effect, in your judgment, would it have to remove the tariff on pulp wood and other lumber products coming from Canada?

Mr. Lynch. I think it would cheapen the pulp in the United States. I am not so sure about the lumber, although it probably would that also.

The CHAIRMAN. Do you cut timber from the crown land? Mr. Lynch. Yes, sir.

The CHAIRMAN. What do you have to pay for it, if that is not an

unreasonable question?

Mr. Lynch. The price varies a great deal, according to the location of the timber and its quality, and also the time it was bought. It has increased very materially in price in the last four or five years. The crown lands, meaning the Dominion of Canada lands, were put up at—

The CHAIRMAN. The Province of Ontario land?

Mr. Lynch. They use entirely different systems of buying. The Province of Ontario and the Dominion use entirely different systems of selling their timber.

The CHAIRMAN. What are the crown lands in Ontario?

Mr. Lynch. They are owned by the Province of Ontario.

The CHAIRMAN. Where are they?

Mr. Lynch. Everything outside of the province of Ontario in Alberta, Saskatchewan, Athabaska, and Manitoba is owned by the Dominion government.

The CHAIRMAN. Your timber comes mostly from the Dominion? Mr. Lynch. Everything we have is from the Dominion government or from the British Columbian government in the west.

The CHAIRMAN. What sort of system do they adopt about stump-

age ?

Mr. Lynch. Anyone wishing to acquire timber on Dominion lands makes an application to the department of the interior to have the land put up at auction. They are put up and sold under sealed bids. The minister of the interior, if he sees fit to order it done, orders the land advertised for two months in the Official Gazette and the local papers, sets a time for opening bids, and bids are submitted sealed, accompanied by marked checks for the full amount of the bids to the department of the interior at Ottawa, and the timber is sold to the highest bidder; that is, for the bonus which goes with the first cost of the timber. After that you pay an annual rental to the Crown each year on each section of land that you hold and pay 50 cents a thousand for the timber when it is cut.

The CHAIRMAN. Let me see if I understand you. They do not sell

the land itself?

Mr. Lynch. The land itself is never sold by the Crown; no, sir.

The CHAIRMAN. They sell only the stumpage? Mr. LYNCH. They sell only the stumpage.

The CHAIRMAN. When you buy it you pay for it, and if you are the highest bidder, you pay the bonus that you offer for the right to cut?

Mr. Lynch. Yes, sir.

The CHAIRMAN. Which would be, at present, about how much?
Mr. Lynch. The last timber that we bought cost us about \$2 a

thousand.

The CHAIRMAN. You bid on the basis of so much a thousand? Mr. Lynch. No, sir. We bid a lump sum, but the last timber that

we bought cost us about \$2 a thousand.

The CHAIRMAN. Then, after that, whether you cut the timber or not you pay an annual rental based on what?

Mr. Lynch. Acreage.

The CHAIRMAN. Which would run about what?

Mr. Lynch. It varies; it runs from \$5 to \$20 per section.

The CHAIRMAN. Is that a matter of bidding, or is that a regulation ?

Mr. Lynch. That is a regulation.

The CHAIRMAN. That depends, then, upon the quantity of timber? Mr. Lynch. It depends upon the district in which the timber is situated. It is really based on the quantity of timber on the land.

The CHAIRMAN. That would naturally tend to cause the cutting of the timber as soon as possible, wouldn't it? Do you pay the rental

after the timber is cut?

Mr. Lynch. No. sir; as soon as the timber is cut you relinquish it.

The terms are considered very reasonable.

The CHAIRMAN. That would involve this question, as to whether the increase in the timber, in your judgment, is worth more than the rental or not.

Mr. LYNCH. I think it is.

The CHAIRMAN. Then, after these two payments, you pay, when the timber is cut, 50 cents a thousand feet?

Mr. Lynch. Yes, sir.

The CHAIRMAN. How do they estimate pulp wood?

Mr. Lynch. They estimate it by the cord.

The CHAIRMAN. How many thousand feet, how many feet to a cord do they figure on?

Mr. Lynch. I don't know. I have never cut any.

The CHAIRMAN. I did not know whether they made their figures on the pulp wood on the thousand feet or on the basis of cords.

Mr. Lynch. The cord. It is estimated by the cord. That provision is included in all our leases or licenses that we get from the government; we must pay so much per cord for pulp wood and so much per thousand for lath.

The CHAIRMAN. Is there any provision in these permits from the

Dominion in reference to the exportation?

Mr. Lynch. No. sir.

The CHAIRMAN. There is no prohibition? Mr. Lynch. Not in anything which I have.

The CHAIRMAN. The Dominion, then, does not follow the same policy in that respect that the Province of Ontario does?

Mr. Lynch. I did not know that the Province of Ontario did that;

the Dominion does not.

The CHAIRMAN. The Province of Ontario forbids the exportation, as we understand it.

Mr. Lynch. There is no prohibition in the Dominion.

The CHAIRMAN. Are there a great many mills up there nowlumber mills?

Mr. Lynch. No; not very many. The main supply of lumber comes from the British Columbia region to the west.

The CHAIRMAN. Is there any railroad land up there-land owned by the railroads?

Mr. Lynch. Covered with timber?

The CHAIRMAN, Yes.

Mr. Lynch. Nothing that amounts to very much; no, sir.

The CHAIRMAN. Are there any freehold lands covered with timber? Mr. Lynch. Not very much; no, sir.

The CHAIRMAN. Practically the whole supply of timber west of Ontario and east of the Pacific coast is owned by the Dominion government, then?

Mr. Lynch. Yes, sir; the Dominion government in all of its dealings in land puts in a provision that the timber remains the property

of the Crown.

The CHAIRMAN. Is there any provision in these permits in regard

to settlement upon the land?

Mr. Lynch. We have to relinquish to settlers, but they have not the right to take off more than 12,000 feet of timber per 160 acres.

The Chairman. Suppose the settler decides to settle on a piece of

land where you have purchased the stumpage, what happens?

Mr. Lynch. He can settle on it, subject to our right to remove the

timber.

The CHAIRMAN. If you do not remove the timber, what good is it to him?

Mr. Lynch. I don't know.

The CHAIRMAN. I mean can he force you to remove the timber?

Mr. Lynch. No, sir.

The CHAIRMAN. That is some protection to you, then, in making these purchases?

Mr. Lynch. Oh, yes.

The CHAIRMAN. If he settles, he can take 12,000 feet from 160 acres?

Mr. Lynch. Yes, sir.

The CHAIRMAN. Which, of course, would not clear the land, and hence there is no inducement to him to settle on land that is well timbered?

Mr. Lynch. There is no inducement for him to settle on it.

The CHAIRMAN. Do you have good railroad facilities to the United States?

Mr. Lynch. I do not think there are as good railroad facilities there as there are in the United States.

The CHAIRMAN. Do you know what the freight rates on logs for

lumber from there here are?

Mr. Lynch. The freight rates will average about the same per mile as they do in this country. The service is not as good; the roads are not as well equipped.

The CHAIRMAN. You do not happen to remember the rate from any of your mills to any point in the United States, do you?

Mr. Lynch. We have never shipped anything. There has been no occasion for us to look it up.

The CHAIRMAN. Where do you ship your lumber to?

Mr. Lynch. The prairies of Manitoba, Alberta, and Saskatchewan. The Chairman. You are furnishing lumber for building up that immense new territory there?

Mr. Lynch. Yes, sir.

The CHAIRMAN. Do you have anything else occur to you, Mr. Lynch, that would be of value to us?

Mr. Lynch. Not that I know of, Mr. Mann.

The CHAIRMAN. Is there any way that we can find out and get a pretty definite idea of the quantity of available spruce timber up there?

Mr. Lynch. Are you going to Winnipeg?

The CHAIRMAN. I did not expect to at this time.

Mr. Lynch. I think that Mr. Crowe, the crown timber agent at Winnipeg, could give you a better idea of the amount of timber that there is in that district than anybody else.

The CHAIRMAN. What is his address?

Mr. Lynch. Dominion land department, at Winnipeg.

The CHAIRMAN. Do you remember his first name?

Mr. Lynch. I do not.

The CHAIRMAN. He has charge of the Dominion lands?

Mr. Lynch. He has charge of the Dominion lands in the territory that I have referred to.

The CHAIRMAN. Who controls the land farther west?

Mr. Lynch. The land in British Columbia is controlled, part of it, by the Dominion government, and part of it by the British Columbia government.

The CHAIRMAN. Is lumber any cheaper over there—you do not

have to answer this question—than it is over here?

Mr. Lynch. Yes; I think it is.

The Chairman. Do you know what the average price is over there now ?

Mr. Lynch. At the mills?

The CHAIRMAN. Yes.

Mr. Lynch. In the mountain districts in British Columbia I think it will run about \$15.50 per thousand at the mill.

The CHAIRMAN. For what kind of lumber?

Mr. Lynch. That takes in all of the kinds that are produced in that country—cedar, pine, fir, spruce, and larch.

The CHAIRMAN. Do you have much pine up there?

Mr. Lynch. There is quite a good deal of pine.

The CHAIRMAN. What pine is it?

Mr. Lynch. Yellow pine. Very little white pine. The CHAIRMAN. That is, Norway pine, you mean?

Mr. Lynch. No; it is a little better grade than Norway pine; not quite as good as white pine.

The CHAIRMAN. How large does that grow to be?

Mr. Lynch. Immense; it is big pine.

The CHAIRMAN. Do you have any cottonwood up there?

Mr. Lynch. Not very much. Some along the streams is all.

The CHAIRMAN. No hemlock?

Mr. Lynch. Some hemlock; yes, sir.

The CHAIRMAN. Are there any hemlock forests there?

Mr. Lynch. Yes; that is, in British Columbia. I do not think there is any hemlock in the spruce country.

The CHAIRMAN. I mean in the eastern portion.

Mr. Lynch. Not that I know of in the eastern portion.

The CHAIRMAN. Were you speaking of yellow pine in British Columbia?

Mr. LYNCH. Yes, sir. The CHAIRMAN. What pine do you have north here?

Mr. Lynch. White pine.

The CHAIRMAN. Is there much good white pine up there?

Mr. Lynch. I think there is quite a good deal of pretty fair white

The CHAIRMAN. Much Norway pine?

Mr. Lynch. I don't think there is very much. The Chairman. Is there much balsam there?

Mr. Lynch. Yes; there is a good deal of balsam.

The CHAIRMAN. Does it grow large?

Mr. Lynch. Not very.

The CHAIRMAN. Any hard wood?

Mr. Lynch. No, sir.

The CHAIRMAN. No maple?

Mr. Lynch. Very little.

The CHAIRMAN. Are you familiar with the wages paid in the United States?

Mr. Lynch. Yes, sir.

The CHAIRMAN. In the lumber camps?

Mr. Lynch. In the northern parts; yes, sir.

The CHAIRMAN. How do they run?

Mr. Lynch. For the past four years they have run from \$30 a month up to \$60 a month and board.

The CHAIRMAN. How do they compare with the wages paid in

lumbering in Canada?

Mr. Lynch. They are a little lower than are paid in Canada.

The CHAIRMAN. You have to pay a little more up in that country where you are operating?

Mr. Lynch. We pay a trifle higher than they do here; yes, sir. The Chairman. That has been the wages in the past?

The CHAIRMAN. That has been the wages in the past? Mr. Lynch. That has been the wages in the past.

The CHAIRMAN. What are the wages going to be next winter?

Mr. Lynch. I think on this side of the line they will be 20 per cent lower than that; on the other side about the same as the American wages have been.

The CHAIRMAN. Is there a shortage of help there?

Mr. Lynch. No; there has not been a shortage of help this year. Prior to this year labor has been very scarce.

The CHAIRMAN. What kind of people do you have up there in the

main in the lumber camps?

Mr. Lynch. We employ mostly Americans.

The CHAIRMAN. Are the Americans the ones who do most of the

lumbering business up there?

Mr. Lynch. I think probably half of the lumbering that is done in western Canada is done under American management; fully onehalf of the skilled labor that is employed is American labor.

The CHAIRMAN. How about the ordinary labor?

Mr. Lynch. The smaller percentage, probably not over one-quarter of the ordinary labor, is American labor.

The CHAIRMAN. What is the balance?

Mr. Lynch. English, Scotch, Canadian, Scandinavian.

The CHAIRMAN. How do you get that labor—by advertising in the United States or in Canada?

Mr. Lynch. No, sir; there are contract-labor laws. It simply comes and we hire it.

The CHAIRMAN. The contract-labor laws would not prevent you advertising in Canada, I suppose, for labor?

Mr. LYNCH. No, I don't suppose they would.

The CHAIRMAN. Do you get it through agencies?

Mr. Lynch. No, sir; we have taken largely American managers over for our mills and in many cases their men have followed.

The CHAIRMAN. How do the wages compare in the mills themselves with the wages paid in the mills of the United States?
Mr. Lynch. They are higher.

The CHAIRMAN. Higher in Canada?

Mr. Lynch. Yes, sir. The Chairman. That is for skilled labor?

Mr. Lynch. Yes, sir; skilled labor and common labor are both

higher in the mills there than here.

The CHAIRMAN. You say that you think lumber is a little cheaper there than it is here, and the labor used in producing it is a little higher, too?

Mr. Lynch. Yes, sir.

The CHAIRMAN. Are the profits smaller or the difference caused by

the difference in the cost of the stumpage?

Mr. Lynch. The profits are smaller. The stumpage is also cheaper. It costs a good deal more to operate a mill in Canada than it does here. In addition to the higher wages that we have to pay, supplies of all kinds are higher and machinery is higher. It costs more to build a mill. The fixed charges are higher.

The CHAIRMAN. Do you think that will continue to be the case

after that country west settles up?

Mr. Lynch. Well, I think that labor and supplies will always be slightly higher than they are here.

#### STATEMENT OF THEODORE M. KNAPPEN, OF MINNEAPOLIS.

(Sworn and examined by the chairman.)

The CHAIRMAN. Will you give your name in full?

Mr. Knappen. Theodore M. Knappen.

The CHAIRMAN. Your residence? Mr. KNAPPEN. Minneapolis.

The CHAIRMAN. What is your business?

Mr. Knappen. In private business I am interested in lands. I am interested in testifying here in connection with reciprocity with Canada on account of my connection with a league interested in the removal of duties on forest products.

The CHAIRMAN. What interest have you in lands?

Mr. Knappen. I own some wheat lands, agricultural lands, in Canada. I do not own any timber land.

The Chairman. You are not connected with any manufacturing

plant that uses timber?

Mr. Knappen. No; my interest in this question is largely that of a citizen. I have no selfish interest. We have an organization we are forming here called the National Forest Conservation League.

The CHAIRMAN. Are you employed by that organization.

Mr. Knappen. I am secretary of that organization.

The CHAIRMAN. Can you give us information in regard to the forest resources of Canada?

Mr. Knappen. I can give you some information. Not as a practical lumberman, of course, but as one who has devoted a good deal of attention to the subject in a general way for a number of years.

The CHAIRMAN. That is information which you have collected? Mr. Knappen. Yes.

The CHAIRMAN. What are your sources of information?

Mr. Knappen. I have traveled a great deal in Canada and seen quite a little from personal observation. I have a wide acquaintance among Canadians, Canadian lumbermen, and in that way in the course of several years have collected a good deal of information.

The CHAIRMAN. Have you been up in the country north of Lake

Superior?

Mr. Knappen. Yes, sir; I have. The CHAIRMAN. How far up?

Mr. Knappen. I have made the trip across several times on the Canadian Pacific Railway from Port Arthur to Winnipeg, and I have been through the Rainy River country on the boundary several times, and also been up in the country which Mr. Lynch has testified about, northwest of Winnipeg, as well as in British Columbia.

The CHAIRMAN. Did you go up there investigating forest matters? Mr. KNAPPEN. No; I did not go for the purpose of investigating forestry matters, but I have been interested in forestry matters for a great many years. I never had occasion to go into any new country that I did not, as a matter of interest, pick up all the information I could on such matters. I I was for many years a newspaper man, and one of the things I specialized on was forestry and forest products and timber. I made some trips in Canada for that special purpose.

The CHAIRMAN. Have you published any articles on the subject?

Mr. Knappen. I have. Not recently.

The Chairman. We would be very glad to receive any information

from you which you have acquired or collected.

Mr. KNAPPEN. Well, I think that in general the amount of available timber in Western Canada—meaning the region say, between Lake Superior and the Rocky Mountains—is not so large as has been supposed. There is a large forest area, about 400 miles wide, and reaching nominally across the continent if you go far enough north, but very little of it is available for commercial purposes.

The CHAIRMAN. Where does that reach across?

Mr. Knappen. It goes right along the international line, crosses the whole timber region of the Middle States, crosses into Ontario, and when you get to about the western side of the Lake of the Woods, the line dividing the prairie country from the forest country deflects to the northwest and runs up around Lake Winnipeg and Lake Manitoba, and then northwest along the main Saskatchewan River clear across to the mountains of British Columbia, where it strikes the general timber country again, running as far north as the sixtleth parallel.

The CHAIRMAN. What is the timber up there?

Mr. Knappen. In that remoter region it is almost exclusively

The Chairman. How large does it grow?

Mr. Knappen. Very little of it is, so far as my knowledge goes, suitable for lumber. There are occasional large trees. Writers and explorers report occasional spruce trees 14 to 18 inches thick almost as far north as the Arctic Circle, but they are very exceptional.

The CHAIRMAN. Are you familiar with the territory north of Lake

Superior?

Mr. Knappen. I am not very familiar with it personally. I have spent some time around Port Arthur and I have talked with lumbermen there and at Winnipeg regarding the region north of Lake Superior, and a brother of mine made a canoe trip all through the region between Lake Superior and Hudson Bay a few years ago. Those are the sources of my information as to that particular region. There is a continuous belt of timber from Lake Superior to about the latitude of James Bay, which is the southern extremity of Hudson Bay. North of that the timber growth ceases on that part of the continent. For the most part Hudson Bay is an untimbered region.

The CHAIRMAN. Do you wish to compile and present to the committee the results of the information which you have collected?

Mr. KNAPPEN. Yes; I would like to have some leisure. I did not know the committee was to be here so soon. I have a good deal of undigested data, so to speak, that I would like to prepare, together with the general information, and a statement which may be placed on vour record.

The CHAIRMAN. We would be glad to have the information if you

will give us the sources of it.

Mr. Knappen. Yes, sir. In giving the information I would give

under notes the sources of it.

The Chairman. If you will do that, we will be very much obliged

to you.

Mr. Kmappen. Thank you very much. I will be very glad of the opportunity to present it.

## ADDITIONAL STATEMENT BY MR. LYNCH.

In making my comparison of values of stumpage on this side and the other, I was comparing the values of stumpage directly north of here and northwest of here with the stumpage in Minnesota when I said it was cheaper on the other side. As you go farther west in the mountain districts of British Columbia and the mountain districts of Idaho and Washington, I think that there is not much difference in the value of the stumpage. If anything, it is higher on the other side than it is on this.

The CHAIRMAN. I understood you to have reference to the terri-

tory north and west of Minnesota.

Mr. Lynch. My comparison was correct with that understanding. The CHAIRMAN. How do you get the stumpage out in British Columbia; in the same way?

Mr. Lynch. We get the Dominion stumpage in the same way. The British Columbia stumpage is on an entirely different basis. stumpage there is staked in a good deal the same way that a man would acquire stumpage in this country, except that it does not require a residence. After it is staked, you get a license from the government running for twenty-one years, allowing you to cut that timber at any time during twenty-one years from the time of staking. You, in addition to that, pay a rental of from \$115 per section to \$140 per section per year; in addition to paying a royalty to the British Columbian government on all the timber which you cut. That royalty is not fixed. It can be raised at any time, and they are now talking of raising the royalty.

The CHAIRMAN. What is it at present?

Mr. Lynch. Fifty cents and 60 cents, according to the district it is in.

The CHAIRMAN. That is 50 cents a thousand feet?

Mr. Lynch. Yes, sir.

The CHAIRMAN. Do you pay anything when you get the first license?

Mr. LYNCH. We bought timber that was staked many years ago by Canadian cruisers. They go out and stake away ahead of the railroads and away ahead of everything.

The CHAIRMAN. When you say staked, you mean what we call sur-

veyed, I suppose?

Mr. Lynch. Yes, sir; while it cost them but comparatively little, it cost us pretty heavily.

The CHAIRMAN. How do you mean cost you pretty heavily?

Mr. Lynch. We had to buy them out.

The CHAIRMAN. You bought out somebody else who had a license? Mr. Lynch. Yes, sir.

The CHAIRMAN. Does the government itself-

Mr. LYNCH. The government itself gets but little out of that originally.

The CHAIRMAN. What system do they have? Do they have a

charge made at the time the original license is granted?

Mr. Lynch. They have a license system with this annual rental of \$115 to \$140 per section, and they reserve the right se any time to raise the royalty to whatever the traffic will bear.

The Chairman. I can not see what object there is on either side

in entering into such an arrangement as that.

Mr. Lynch. I have not found it of any object on our side yet to enter into the arrangement.

The CHAIRMAN. Have you cut lumber up there?

Mr. Lynch. Yes, sir.

The CHAIRMAN. Do you have a mill up there?

Mr. Lynch. Yes, sir; two of them. The Chairman. In British Columbia?

Mr. Lynch. Yes, sir.

The CHAIRMAN. Do they have any pulp wood up there?

Mr. Lynch. Not in the country that I am familiar with. It is big

timber, all of it.

The CHAIRMAN. Now, let us see, when you get that permit for twenty-one years, the annual rental is fixed at the time the license is granted for the twenty-one years?

Mr. Lynch. There is a difference of opinion. We claim it is, and

the government claims it is not.

The CHAIRMAN. That is, the government claims it may raise the annual rental when it pleases?

Mr. Lynch. Yes, sir.

The CHAIRMAN. Do you pay rental on the ground after the timber is cut off?

Mr. Lynch. No, sir.

The CHAIRMAN. That is relinquished to the government?

Mr. Lynch. Yes, sir.

The Chairman. What does it do with the land, anything?

Mr. Lynch. Well, it is presumed that it will reforest it. That is said to be their intentions.

The CHAIRMAN. As to that stumpage, you have no fixed period in reference to that at all?

Mr. Lynch. No. sir.

The CHAIRMAN. It there any provision for renewal of that license? Mr. Lynch. Not now; no, sir.

On October 15, 1908, the committee visited and examined the mill of the Watab Pulp and Paper Company, at Sartell, Minn., near St. Cloud.

SARTELL, MINN., October 15, 1908-9 a.m.

## STATEMENT OF CHARLES G. OBERLEY, OF ST. CLOUD, MINN.

(Sworn and examined by the chairman.)

The CHAIRMAN. Will you give the stenographer your full name?

Mr. OBERLEY. Charles G. Oberley.

The CHAIRMAN. You are general superintendent of this plant?
Mr. OBERLEY. Vice-president and superintendent of the Watab Pulp and Paper Company.

The CHAIRMAN. Located where?

Mr. OBERLEY. Sartell, Minn.

The CHAIRMAN. How far is this north of St. Cloud?

Mr. OBERLEY. Approximately 5 miles.

The CHAIRMAN. Your power is mainly water power?

Mr. OBERLEY. Water power; yes, sir.

The CHAIRMAN. From the Mississippi River here?

Mr. OBERLEY. Yes, sir.

The CHAIRMAN. About what power do you have now?

Mr. OBERLEY. Do I understand you, what power we have developed or what power we are actually getting now at this time?

The CHAIRMAN. What power you have developed? Mr. OBERLEY. Approximately 7,000 horsepower.

The CHAIRMAN. Have you been restricted this summer by reason of the low stage of water? Mr. OBERLEY. Yes, sir.

The CHAIRMAN. Are you at present?

Mr. OBERLEY. Yes, sir.

The CHAIRMAN. What is your capacity, both for pulp and paper? Mr. OBERLEY. About 36 tons of paper and between 45 and 50 tons of pulp, when we are running full.

The CHAIRMAN. That is of ground wood?

Mr. OBERLEY. Yes, sir.

The Chairman. You do not manufacture any sulphite?

Mr. OBERLEY. No. sir.

The CHAIRMAN. You make here, I believe, a superior quality of news-print paper?

Mr. OBERLEY. We endeavor to do so; yes, sir.

The CHAIRMAN. What do you call that? Mr. OBERLEY. No. 1 print paper or No. 1 news.

The CHAIRMAN. If I remember rightly, you get your sulphite at present from one of the Wisconsin mills, where they make a superior quality of sulphite?

MI. OBERLEY. Yes, sir; the Interlake Pulp and Paper Company.

We buy the highest grade, the E grade.

The CHAIRMAN. You aim to make a superior quality of ground wood ?

Mr. OBERLEY. Yes, sir.

The CHAIRMAN. What is the difference in your process from the

ordinary process?

Mr. OBERLEY. Well, we use a duller stone to grind the wood on and it takes more horsepower. We use a higher pressure and that takes more horsepower.

The CHAIRMAN. That is, you aim, instead——
Mr. OBERLEY. Instead of getting quantity, we get quality.

The CHAIRMAN. You aim, I judge, instead of breaking off the fiber to tear it by a dull stone?

Mr. OBERLEY. Yes; to rub it off.

The CHAIRMAN. So as to have as long a fiber as possible?

Mr. Oberley. Yes, sir.

The CHAIRMAN. Do you think your fiber in the ground wood is longer than the fiber in the ordinary ground wood?

Mr. OBERLEY. Yes, sir.

The Chairman. Do you give any more attention to the matter of the preparation of the wood than they ordinarily do, so far as you know ?

Mr. OBERLEY. So far as I know we give it exceptional attention from the time the wood is prepared until it is turned into the ground

The CHAIRMAN. Exceptionally good attention in what way?

Mr. OBERLEY. In sorting our wood, in allowing no rotten wood or wood that is of an inferior quality to enter into the manufacture of the pulp.

The CHAIRMAN. Do you lose quite a percentage of your wood in

that way?

Mr. Oberley. Yes, sir.

The CHAIRMAN. Have you any idea what percentage?
Mr. OBERLEY. I could not say off-hand. Possibly Mr. Mathie could give us an idea of what percentage that is.

The CHAIRMAN. Do you keep any record of it in order to know? Mr. OBERLEY. No, sir; the record that we keep is the number of cords of wood that go through the mill and the number of pounds of pulp that is produced from that amount of wood.

The CHAIRMAN. The number of cords that go through the mill. Of course, the wood that is thrown out is counted in that cordage?

Mr. OBERLEY. Yes, sir.

The CHAIRMAN. So that it does not give a record of the amount that is rejected?

Mr. OBERLEY. No, sir; it does not.

The CHAIRMAN. Where do you get your wood from?

Mr. OBERLEY. Principally on the Minnesota and International Railway. Along the line of the Minnesota and International Rail-

The CHAIRMAN. Have you got a large stock on hand?

Mr. OBERLEY. We have at the present time in the neighborhood of eight or ten thousand cords.

The CHAIRMAN. How long would that last you, ordinarily? Mr. OBERLEY. That will last us about eight or nine months.

The CHAIRMAN. How do you buy your wood?

Mr. OBERLEY. We buy from the homesteaders a good deal.

The CHAIRMAN. Directly or through merchants?

Mr. OBERLEY. In some cases we have bought through merchants, but in most cases we have a man that we pay a salary to to buy this wood from the homesteaders or contractors.

The CHAIRMAN. Does he travel up through where the homesteaders

are i

Mr. Oberley. He lives up there.

The CHAIRMAN. Would he be able to buy a considerable quantity of wood in any restricted locality where he lives?

Mr. OBERLEY. I do not believe I understand that question.

The CHAIRMAN. Does he buy simply at home, or does he travel in buving?

Mr. OBERLEY. He travels up and down and buys at all the stations

on the M. and I.

The CHAIRMAN. Do you have any idea of what percentage he buys from settlers and what percentage he buys from contractors?

Mr. Creater. I would imagine that he buys about from 40 to 50

per cent from the homesteaders and possibly more.

The CHAIRMAN. What price have you been paying lately for pulp wood, during the last year?

Mr. OBERLEY. It has cost us in the neighborhood of \$9 in the yard

here.

The CHAIRMAN. That is, piled up or delivered on the cars?

Mr. OBERLEY. Delivered on board the cars, about \$9. It costs about 25 cents a cord to pile it up.

The CHAIRMAN. What would that be at the station where it is de-

livered to you?

Mr. OBERLEY. That would be determined by the freight rate. They take a different distance tariff. It would depend on what station it came from.

The CHAIRMAN. That is what I want to find out.

Mr. OBERLEY. We have paid as high as \$6.25.

The CHAIRMAN. As low as how much?

Mr. OBERLEY. I do not believe that we got anything better than \$6 last year.

The CHAIRMAN. That is not a very wide variation?

Mr. OBERLEY. No, it is not; but where a man had an exceptionally fine lot of wood, and we saw where we could get more out of it than we could out of a lot of wood that was not quite as good, we felt as though it stood us in hand to pay that extra quarter.

The CHAIRMAN. How long has this mill been established?

Mr. OBERLEY. We have been running a little over a year and a half. We started to build this mill three years ago.

The CHAIRMAN. When did you first start on your water-power proposition?

Mr. OBERLEY. At that time.

The CHAIRMAN. How long did it take to construct that water power?

Mr. Oberley. I can not just remember how long.

The CHAIRMAN. Did you have any trouble about your dam?

Mr. OBERLEY. A great deal.

The CHAIRMAN. What percentage of the water in the river do you think you use?

Mr. OBERLEY. There is a good share of the time that we use the most of it. Of course, not in extreme floods.

The CHAIRMAN. Do you have to let a lot of it go over the dam for

the benefit of the log drivers?

Mr. OBERLEY. A good share of it.
The Chairman. Have you any idea what proportion?

Mr. OBERLEY. No; I have no way of determining what proportion goes through that sluice.

The CHAIRMAN. How many grinding machines have you?

Mr. OBERLEY. Nine.

The CHAIRMAN. Three pockets to a machine?

Mr. OBERLEY. Yes, sir.

The CHAIRMAN. Is there room for any more in your mill?

Mr. OBERLEY. Yes, sir; room for nine more.

The CHAIRMAN. How many paper machines have you?

Mr. OBERLEY. One.

The CHAIRMAN. Is there room for one more?

Mr. OBERLEY. Room for one more of the same size. The CHAIRMAN. What is the size of your machine?

Mr. OBERLEY. 154-inch machine. We trim 141 inches of paper.

The CHAIRMAN. What is the revolution?

Mr. Oberley. We are running about 500 feet on an average. The CHAIRMAN. Your men work twelve hours a day, I suppose?

Mr. OBERLEY. Eleven and thirteen.

The CHAIRMAN. I mean the average is twelve hours.

Mr. OBERLEY. Yes, sir.

The CHAIRMAN. Eleven one week and thirteen the next?

Mr. OBERLEY. Yes, sir.

The CHAIRMAN. What do you pay your men?

Mr. OBERLEY. I can give you the rate of wages by our time book. I can not recall them all.

The CHAIRMAN. I do not want them all. What do you pay your machine tenders?

Mr. OBERLEY. Four dollars a day. The CHAIRMAN. Back tender? Mr. OBERLEY. About \$3 a day.

The CHAIRMAN. What do you pay your fifth man?

Mr. OBERLEY. We pay them by the hour; I can not exactly recall

The Chairman. He just told me 121 cents an hour, 15 years old. You are all young men here?

Mr. OBERLEY. Yes, sir.

The CHAIRMAN. The boys in there look as though they were kids.

Mr. OBERLEY. They are a very likely lot of kids.

The CHAIRMAN. Do you pay the usual rate of wages out in the western country?

Mr. OBERLEY. We pay a little more, I think. We have endeavored to get the best help we could, and we have been willing to pay them.

The CHAIRMAN. Your machinery is up to date in every respect, I judge, from the looks of it?

Mr. OBERLEY. We consider it so; yes, sir.

The CHAIRMAN. Your plant is operated, I judge, entirely by water power, except the boilers for the heating?

Mr. OBERLEY. And drying of the paper.

The CHAIRMAN. Heating the plant and the driers?

Mr. OBERLEY. Yes, sir.

The CHAIRMAN. Your paper machine is electrically operated?

Mr. OBERLEY. It is driven electrically.

The CHAIRMAN. And the electricity is obtained from the water power?

Mr. OBERLEY. Yes, sir.

The Chairman. All of your beaters are operated from the water

Mr. OBERLEY. Yes, sir.

The CHAIRMAN. What fall have you here?

Mr. OBERLEY. Eighteen feet.

The CHAIRMAN. You have had cut off for me a number of disks? Mr. OBERLEY. Yes, sir.

The CHAIRMAN. They have been taken from the wood or sticks going through the mill?

Mr. OBERLEY. Yes, sir.

The CHAIRMAN. So far as you know they fairly represent the character of the wood that you use?

Mr. OBERLEY. Yes, sir.

The CHAIRMAN. That is mostly black spruce wood that you use, isn't it?

Mr. OBERLEY. A good share of it. A little white spruce mixed with it.

The CHAIRMAN. How much stock have you on hand now in the way of ground wood?

Mr. OBERLEY. The last I remember we had about 1,400 tons.

The CHAIRMAN. Are you storing any now?

Mr. OBERLEY. No, sir; we have not been for quite a few days. We will have to shut down some of the grinders soon, because we are drawing the head down. We are not making any more at the present time than we are using on the one paper machine. The pulp that we have stored we made the bulk of it when we had good water.

The CHAIRMAN. Do you sell your paper for a higher price than the

ordinary news-print paper?

Mr. OBERLEY. I am not exactly familiar with the prices the other manufacturers are getting for their product.

The Chairman. Have you any objection to stating the price that you are getting for your product?

Mr. OBERLEY. No, sir. We are getting about \$2.25 to \$2.45 f. o. b. the mill for it. That would be the average price.

The CHAIRMAN. In selling it do you sell it f. o. b. the mill?

Mr. OBERLEY. Yes, sir; in all cases.

The CHAIRMAN. You do not sell it delivered at the press rooms?

Mr. OBERLEY. No, sir.

The CHAIRMAN. Or at the station?

Mr. OBERLEY. No, sir. We have adopted the plan of selling it f. o. b. the mill for the reason in many instances the paper is damaged in transit, and it is kind of a hard matter for us to take care of it at the other end of the route.

The CHAIRMAN. Equally hard for the purchaser, isn't it?

Mr. OBERLEY. I would imagine that as he is right on the ground it would be easier for him to handle it than it would be for us to handle it, being so far away.

The CHAIRMAN. You supply, I believe, the Chicago Evening Post?

Mr. OBERLEY. Yes, sir.

The CHAIRMAN. Which shows for itself that it is printed on a superior quality of paper.

Mr. OBERLEY. Thank you.

The CHAIRMAN. How long have you been in the paper manufacturing business?

Mr. OBERLEY. Twenty-seven years.

The CHAIRMAN. Are you financially interested in this plant?

Mr. OBERLEY. Yes, sir.

The CHAIRMAN. One of the originators of it and promotors?

Mr. OBERLEY. Yes, sir.

The CHAIRMAN. I suppose when you were figuring upon the plant you figured upon the future supply of pulp wood?

Mr. OBERLEY. Yes, sir.

The CHAIRMAN. What are your views as to that?

Mr. OBERLEY. Well, we would not have built such a substantial mill as we did if we did not see a good many years' supply ahead

The CHAIRMAN. Is that belief based upon hope or upon informa-

tion?

Mr. OBERLEY. It was based a good deal on observation. I have been all up through this country, all along this line.

The CHAIRMAN. Where did you commence in the paper manu-

facturing business?

Mr. OBERLEY. Neenah, Wis.

The CHAIRMAN. What plant were you connected with there?

Mr. OBERLEY. The Patten Paper Company.

The CHAIRMAN. Did they make news-print paper at that time?

Mr. OBERLEY. Yes, sir.

The CHAIRMAN. Do they make it now?

Mr. OBERLEY. They have sold that mill, but they have two others that I used to work in.

The CHAIRMAN. Who owns that mill now? Mr. OBERLEY. The Kimberly-Clarke Company. They have remodeled it and taken the old machines out and made a book mill of it.

The CHAIRMAN. Do you know why?

Mr. OBERLEY. I do not.

The CHAIRMAN. When that mill was located there, you made newsprint paper?

Mr. OBERLEY. Yes, sir; out of rags.

The CHAIRMAN. And afterwards out of what?

Mr. OBERLEY. Well, they never used any wood while I was there. Wood came in later than that.

The CHAIRMAN. When did they first commence using wood over there in your experience, ground wood?

Mr. OBERLEY. I can not give you dates. I can not remember that far back.

The CHAIRMAN. Have you been continuously in the paper manufacturing business?

Mr. OBERLEY. Yes, sir.

The CHAIRMAN. Where were you afterwards?

Mr. OBERLEY. Menasha, George A. Whiting's, Menasha.

The CHAIRMAN. Was he using wood over there?

Mr. OBERLEY. He did use a little of it.

The CHAIRMAN. We have been trying to ascertain the history of the introduction of wood in the paper manufacturing business, and

not very successfully so far.

Mr. OBERLEY. My recollection was that in 1878, about that time, the Kimberly-Clarke Company began to use wood at the Globe Paper Mill, at Neenah. That was the first wood pulp that I heard of being used. As I remember it, they used one bottle of ground wood to a 600-pound beating engine.

The Chairman. What would they use now?

Mr. OBERLEY. They use wood entirely.

The CHAIRMAN. Ground wood, you say?

Mr. OBERLEY. Yes, sir.

The CHAIRMAN. They would not use all ground wood now? Mr. OBERLEY. No, they use about 20 per cent sulphite pulp.

The CHAIRMAN. What percentage of sulphite do you use here, about 20 per cent or less?

Mr. OBERLEY. We use less.

The Chairman, Because of the superior quality of your ground wood ?

Mr. Oberley. Yes, sir.

The CHAIRMAN. You have no fear of the spruce forests tributary to your mill being exhausted?

Mr. Oberley. No, sir.

The CHAIRMAN. Is there any reproduction of spruce going on Mr. Oberley. Not to my knowledge.

> INTERNATIONAL FALLS, MINN., October 18, 1908-9 p. m.

## STATEMENT OF ERIC FRANSON, OF INTERNATIONAL FALLS.

(Sworn and examined by the chairman.)

The CHAIRMAN. Give your name.

Mr. Franson. Eric Franson.

The CHAIRMAN. You live at International Falls? Mr. Franson. Yes, sir.

The CHAIRMAN. When did you first come to this part of the country?

Mr. Franson. I came to this part of the country in February, 1894.

The CHAIRMAN. Have you been and are you familiar with the forest conditions of this portion of the country?

Mr. Franson. I have been around a good deal; yes, sir, in dif-

ferent parts of the country.

The CHAIRMAN. Do you consider yourself an experienced woods-

Mr. Franson. Yes, sir; I consider myself to know a good deal about the woods.

The CHAIRMAN. Are you able to estimate the quantity of different kinds of standing timber?

Mr. Franson. Yes, I have done that part of the time.

The CHAIRMAN. You have been around with the committee for the last three days through the forests?

Mr. Franson. Yes, sir.

The CHAIRMAN. You showed the committee up on Rat Root River, and adjacent to that, some black spruce forests?

Mr. Franson. Yes, sir.

The CHAIRMAN. Was that a typical spruce forest of thick woods!

Mr. Franson. Yes; that was a fair sample of the black spruce that we have. In some places you will find it a good deal larger, but that was a fair sample of black spruce.

The CHAIRMAN. What would you say was the average diameter of

the black spruce that we saw up near the Rat Root?

Mr. Franson. Well, the average diameter of the pulp we looked at there I should judge to be about 6 inches.

The CHAIRMAN. What would you estimate was probably the aver-

age height of the good pulp spruce?

Mr. Franson. The average height of the good spruce will run between 60 and 75 to 80 feet.

The CHAIRMAN. I mean that black spruce that we looked at on the Rat Root; would that average as high as 60 feet, do you think?

Mr. Franson. It depends how far out toward the open muskeg

The CHAIRMAN. It would vary from the highest land to the very

swampy land?

Mr. Franson. Yes; of course we could not call the very smallest, where it runs down very low, commercial pulp spruce. The average pulp spruce would run in the neighborhood of 55 or 60 feet, I should think.

The CHAIRMAN. In that spruce that we looked at where it was probably the thickest have you an idea as to the number of trees to the acre?

Mr. Franson. No, I have not.

The CHAIRMAN. You are not in the habit of computing it in that way?

Mr. Franson. Yes.

The CHAIRMAN. What would be your estimate of the amount of spruce in cords per acre in that character of timber?

Mr. Franson. That character of timber would run from 30 to 45

cords to an acre.

The CHAIRMAN. How do you reach that estimate, by actual cutting

or by figuring out the number of trees and their size, etc.?

Mr. Franson. It can be reached in two ways. By actual cutting and comparing different classes, where cord wood is being cut, and then figuring up the trees and the size of the trees.

The CHAIRMAN. That estimate of yours of 35 to 40 cords per acre,

is it based upon your long experience in such matters?

Mr. Franson. Yes, it is. In some places where I have seen the cord wood cut and where it is about the same thickness of trees and about the size.

The CHAIRMAN. Bits of forest like that are only in places?

Mr. Franson. It runs along the muskeg.

The CHAIRMAN. Along on the outside of the muskeg.

Mr. Franson. Yes; between the high land and the muskeg. The pure black spruce forest.

The CHAIRMAN. What do you call the muskeg?

Mr. Franson. I call the muskeg the low land where the water stands a good deal a good part of the year and it is too wet for timber and grass to grow.

The CHAIRMAN. Do any trees grow in the muskeg at all?

Mr. Franson. Yes, not the lowest part. We find muskeg which is open and then we find muskeg which is heavily covered with timber. It is according to the height of it.

The CHAIRMAN. What determines whether it is muskeg or not?

Mr. Franson. Muskeg would be the open part of it and spruce swamp would be where the timber grows.

The CHAIRMAN. Does tamarack grow farther into the swamp than

black spruce?

Mr. Franson. It grows together in a good many places, and in some places you will find mostly tamarack and in some places all spruce.

The CHAIRMAN. The black spruce, then, seems to grow in just about

as wet ground as tamarack?

Mr. Franson. Yes; about the same. You will find the two together a good deal.

The CHAIRMAN. Where this wet ground is, with the black spruce on, it is very apt to grow very thickly, is it?

Mr. Franson. Yes, sir.

The CHAIRMAN. And apparently very slowly?

Mr. Franson. Yes.

The CHAIRMAN. We noticed quite a number of trees the other day, as I remember, that seemed to have grown about 3 inches in a great many years.

Mr. Franson. That is the extreme wet part of the swamp or muskeg. Toward the high land you will find it larger. You will

find it a foot thick in some places.

The CHAIRMAN. Have you ever made any estimate as to the proportion of acreage that is covered by this thick black spruce forest?

Mr. Franson. No; not exactly.

The CHAIRMAN. As much or more than 10 per cent?

Mr. Franson. It is more than 10 per cent in Itasca and Koochiching counties.

The CHAIRMAN. How much pure muskeg is there here with nothing

growing on it?

Mr. Franson. I have not figured up the acreage. The Chairman. Is there a considerable quantity?

Mr. Franson. No; you might find it in a mile or two in strips, and then it starts in with smaller timber and grows larger toward the high land.

The CHAIRMAN. The swamp spruce is what you call black spruce?

Mr. Franson. Yes.

The CHAIRMAN. And high-land spruce you call white spruce, do you?

Mr. Franson. Yes.

The CHAIRMAN. Is the high-land spruce that we saw on our walk a fair sample of the way the spruce runs in this locality?

Mr. Franson. It was not very large, that that we saw. It is found a good deal larger in other places.

The CHAIRMAN. How large a tree did you measure to-day?

Mr. Franson. We measured a tree that was about 3 feet in diameter.

The CHAIRMAN. That is unusually large for this location?

Mr. Franson. It is unusual. You do not find that very often. Every now and then you find a tree like that, all the way from 6 inches up to 18 inches is very common.

The CHAIRMAN. And in the neighborhood of 10 or 12 inches is

quite common?

Mr. Franson. Yes, sir; very common.

The CHAIRMAN. Those larger trees would likely be used as saw logs, wouldn't they?

Mr. Franson. They are used for saw logs.

The CHAIRMAN. Instead of for pulp wood, if they get sawmills convenient?

Mr. Franson. Yes, they would be used for saw logs.

The CHAIRMAN. Mixed in with this timber around here is there a good deal of white cedar, or arbor vitæ?

Mr. Franson. There is a good deal of white cedar mixed in.

The CHAIRMAN. And a good deal of tamarack?

Mr. Franson. Yes, white cedar and tamarack and balsam and poplar.

The CHAIRMAN. A large amount of what you call poplar?

Mr. Franson. Yes, a large amount of poplar.

The CHAIRMAN. Which seems to be quaking aspen. How large does that grow?

Mr. Franson. It grows all the way from 6 inches to 2 feet.

The CHAIRMAN. Is the black spruce the prevalent spruce, the one that is most found up here?

Mr. Franson. It seems to be the choicest of the two by the paper

men.

The CHAIRMAN. I mean that is the one you find the most of?

Mr. Franson. Oh, yes.

The CHAIRMAN. That is a very slow growth of spruce where it grows in the cold soil?

Mr. Franson. It is very slow growing; yes.

The CHAIRMAN. Have you any idea about the age of these trees around here? I think we counted the rings on a 10-inch tree here the other day, and there were apparently about 125.

Mr. Franson. Yes; I think the age runs from 50 to 125 years.

The CHAIRMAN. Have you any idea about the percentage of spruce around here?

Mr. Franson. Do you mean black spruce?

The CHAIRMAN. Black spruce and white spruce combined, or either one.

Mr. Franson. It will run one-third or better of spruce.

The CHAIRMAN. When a cruiser goes on land, how does he estimate the quantity of the different kinds of timber on it?

Mr. Franson. In saw timber he will size up the trees, how many logs a tree will cut, and how many logs it will take to a thousand.

The CHAIRMAN. He does not size up every tree, does he?

Mr. Franson. He will size up the trees and then make an average of the whole.

The Chairman. He does not actually count the trees?

Mr. Franson. He actually counts the trees in large timber. In pine timber and saw timber. To make a good estimate he must count the trees.

The CHAIRMAN. Can he tell just where the 40-acre tract commences, where the line is?

Mr. Franson. A cruiser to take a good and true estimate must run out every forty by itself.

The CHAIRMAN. Do they do that, as a matter of fact?

Mr. Franson. That is the way they do it. And then go through the forty several times.

The CHAIRMAN. How do they do in estimating pulp wood? Of

course, they can not possibly count the trees there?

Mr. Franson. The only way would be to step off an acre or more and count the trees on one acre and then average that with the bal-

ance of the forty.

The CHAIRMAN. A gentleman over at the hotel stated that in 160 acres they had counted 27,000 poles, that is, telegraph poles, most of which were on about 80 acres. That would be, if equally distributed over 160 acres, I think Mr. Norris figured 170 trees to the acre.

Mr. Franson. That was telephone poles.

The CHAIRMAN. Yes. Does the pulp spruce stand as thick as that or thicker?

Mr. Franson. It stands a good deal thicker. A telephone pole is generally a cedar pole, and the spruce pulp grows a good deal thicker than cedar does.

The CHAIRMAN. What is the character of the soil here?

Mr. Franson. The biggest part of the country is black loam, with clay subsoil on the low land, and on the high land where the Norway pine grows it is sandy and rocky.

The CHAIRMAN. It seems to grow good timothy hay.

Mr. Franson. It grows very fine timothy and clover in places.

The CHAIRMAN. Does it grow other farm crops well?

Mr. Franson. All the garden stuff seems to do exceedingly well.

Even corn has been raised successfully.

The CHAIRMAN. You remember we noticed a good many homestead sites, little clearings with a small house of some sort, most of which seem to be abandoned?

Mr. Franson. Yes, sir.

The CHAIRMAN. Is that because, as a rule, those titles have been secured from the Government or because the people have quit before they secured title?

Mr. Franson. I think I gave you a statement the time we walked by a few of them that a couple of parties have died and two other parties have sold out.

The CHAIRMAN. After they got their title? Mr. Franson. After they got their title.

The CHAIRMAN. I wondered whether the taking of those homesteads was, as a rule, for the purpose of getting title or whether they really intended to farm there, because in no case did we see in any of these abandoned homesteads where the ground had been turned over.

Mr. Franson. In two or three places the ground had been cul-

The CHAIRMAN. Who does the land around here that is not taken up generally belong to; does the Government or State own much of it, do you know?

Mr. Franson. The high land that belonged to the Government has been taken by the homesteaders, and through the stone and timber

The CHAIRMAN. All the high land practically, then, is now owned by private individuals or corporations?

Mr. Franson. It is.

The CHAIRMAN. Does the State own very much of the land up here?

Mr. Franson. The State owns a large portion of the swamp land.

The CHAIRMAN. Is that outside of the muskeg?

Mr. Franson. That is the muskeg.

The CHAIRMAN. Do they own much of the spruce swamps?

Mr. Franson. There is spruce on some of it. In some cases the spruce belongs to homesteaders.

The CHAIRMAN. How large a county is Koochiching County?

Mr. Franson. Fifty-four miles long and 60 miles wide.

The CHAIRMAN. What county is on the east of it? Mr. Franson. On the east of it is St. Louis County.

The CHAIRMAN. Is that the one that runs clear to Duluth?

Mr. Franson. Yes.

The CHAIRMAN. What county is on the south of it?

Mr. Franson. It is Itasca County.

The CHAIRMAN. Is Koochiching County very largely the same character of forest all over?

Mr. Franson. Yes; it is a good deal. About the same character of land. A good deal of swamp in it and some high land.

The CHAIRMAN. Is Itasca County very much the same?

Mr. Franson. A good deal of it.
The Chairman. Is the western part of St. Louis County much the same; that is, the part that joins Koochiching and Itasca counties, or are you familiar with that over there?

Mr. Franson. St. Louis County is higher land than Itasca and

Koochiching County.

The CHAIRMAN. The surface up here along the boundary line is largely water, is it not?

Mr. Franson. It is.

The CHAIRMAN. Is Koochiching County filled with lakes also away from the Rainy River?

Mr. Franson. Not very many.

The CHAIRMAN. It is mostly either swamp or forest? Mr. Franson. Swamp and forest and a few rivers.

The CHAIRMAN. How about Itasca County; are there more lakes in that?

Mr. Franson. There are more lakes in Itasca County.

The CHAIRMAN. Is Lake Itasca in Itasca County?

Mr. Franson. I think it is.

The CHAIRMAN. Does that include the Leech Lake district?

Mr. Franson. Yes.

The CHAIRMAN. Have you an idea as to the average of spruce trees per acre in cords in this country or this locality?

Mr. Franson. I haven't a close estimate of it, but in my judgment, I think it will run from 5 to 10 cords, and probably more, probably

as high as twenty.

The CHAIRMAN. I think Mr. Backus stated the other day that he thought there was about twice as much poplar in this Rainy River basin as there was spruce. It did not seem to me that would be the case with what we have seen.

Mr. Franson. There is a very large amount of poplar, because it grows larger and taller. Take it along the rivers, for instance, along Rat Root now, and in there, that part of the country above where we were, it is very heavy poplar all the way through, and a good deal of the high land is covered with poplar, too.

The CHAIRMAN. When they cut this forest do they cut it clean as

they go along, cut everything down?

Mr. Franson. They generally take the saw timber and leave the balance of it where they have been cutting now.

The CHAIRMAN. That is where they are cutting logs? Mr. Franson. Where they are cutting saw logs, yes.

The CHAIRMAN. Where they cut telephone poles, do they clean it up?

Mr. Franson. They generally take all the cedar. Cedar is generally by itself, and they clean all the cedar off as they go along.

The CHAIRMAN. As a matter of fact, have they cut any pulp wood

up here at all yet?

Mr. Franson. Not much in this part of the country. There was a small amount cut last winter about 25 miles from here.

The CHAIRMAN. Did you see where they cut it?

Mr. Franson. Yes.

The CHAIRMAN. They are likely when they cut pulp wood to cut it clean?

Mr. Franson. They cut that portion clean except a few tamaracks. The Chairman. Would it be practicable, where they cut this black spruce pulp wood, to leave the small stuff 2 and 3 inches in thickness standing, or would it be all broken down?

Mr. Franson. The most of it would be broken down. There will be some small ones, but the most of it will be destroyed in taking the

big ones out where it stands so thick.

The CHAIRMAN. The dam that is located and has been started here. and upon which operations ceased, is to be gone right ahead with now, I believe.

Mr. Franson. It is.

The CHAIRMAN. All the financial and other arrangements have

Mr. Franson. Yes, as far as I know, all the financial arrangements are made and the company is organized, and in the last few days they have started in to prepare for the men and get ready for the work.

The CHAIRMAN. You have a fall here of about 30 feet, Mr. Doring

says.

Mr. Franson. Yes; just about.

The CHAIRMAN. With a very large area of water in lakes to draw upon ?

Mr. Franson. Very large, indeed.

The CHAIRMAN. Are you familiar with the forest on the Canadian side ?

Mr. Franson. Fairly.

The CHAIRMAN. Is it about the same as it is over on this side?

Mr. Franson. It is, in some places. West of here on the Canadian side they have a great deal of spruce pulp, and also farther east there is a very large tract of it. Straight north of here it is rocky, and there is more pine and high-land spruce than anything else.

The CHAIRMAN. Is it rocky right directly east of here too, more or

less?

Mr. Franson. It is rocky, yes; but it is a portion of the country which is lower land, and there is more black spruce.

The CHAIRMAN. What kind of forest is there on the north shore of

Rainy Lake where it runs off to the north?

Mr. Franson. Close to the lake is mostly pine.

The CHAIRMAN. Is that higher ground?

Mr. Franson. Close to the lake? Yes. Back of the lake for a mile or a mile and a half or two miles you find very nice spruce pulp. The CHAIRMAN. Is this lake basin here largely stone?

Mr. Franson. It is mostly in stone, except a few places similar to

the Rat Root country that we were in the other day.

The CHAIRMAN. Does that rise back into stone farther out, or does it simply run into muskeg?

Mr. Franson. That runs into muskeg.

The CHAIRMAN. Someone has stated since we have been here that a large share of the forest over on the Canadian side west of here, I think, had been burned over and was of very little value.

Mr. Franson. There have been some fires; but to my knowledge I do not know that any great portion of the pulp timber has been

burned. Some of it probably has.

The CHAIRMAN. You have had no serious fires here this summer?

Mr. Franson. Not on this side.

The CHAIRMAN. Were there some serious fires on the Canadian side?

Mr. Franson. They had some fires east of here.

The CHAIRMAN. Have there been any serious forest fires here since

you have been here; since 1894?

Mr. Franson. Not on the American side. There was a serious forest fire on the Canadian side which burned about 40 miles in length.

The CHAIRMAN. Was that this same low land or was it higher

Mr. Franson. That was higher land.

The Chairman. It would take, I suppose, a very exceptional drought to make this low land over here dry enough to burn badly, wouldn't it?

Mr. Franson. It must be a very dry season to burn the muskeg.

Similar to the one that we had this summer up here.

The CHAIRMAN. Where we have been through the last few days, while it has rained, it would not seem to me that it would burn very fast.

Mr. Franson. There was a time about a month here when it was very dry.

The CHAIRMAN. Would the moss get dry enough to burn rapidly? Mr. Franson. Yes; it was this summer for about a month. was, in fact, one fire started, but by prompt action of the people around there they got it out.

The CHAIRMAN. Does the State make any effort or provide any

men to fight forest fires?

Mr. Franson. The only effort they have made so far is that the township board and the village president are forest commissioners and they have the power to call the people in case of a forest fire.

The Chairman. How long have you had a railroad up here?

Mr. Franson. We have had a railroad in here now for a year. The CHAIRMAN. Has there been much more danger of forest fires

with the railroad here?

Mr. Franson. There would be more danger of forest fires. The M. and I. run a speeder during the dry season quite often after a train has passed, and if a fire was discovered it was reported and very prompt action was taken to put it out.

The CHAIRMAN. What is a speeder?

Mr. Franson. A light car. They run with gasoline. They are big enough for two or four men. They have a fine one on the Minnesota and International big enough for six men and a small one big enough for three men. They are very handy cars to go through the country with.

The CHAIRMAN. How will they get this pulp wood, when it is cut,

to this point?

Mr. Franson. Anything that is close to the railroad will be hauled on cars, and anything that is close to the rivers, more handy to the lake, will be taken through the lakes.

The CHAIRMAN. Do they haul pulp wood in the winter on teams

to any extent for any distance?

Mr. Franson. That is the proper time to haul it, and it can be hauled a good many miles.

The CHAIRMAN. On an iced road?

Mr. Franson. Yes; especially where it stands thick, so that they

can afford to put in a good road.

The CHAIRMAN. Do you think it would pay up here to endeavor to keep any of those spruce forests where the trees are very small and very thick standing until they grow considerably larger, which might take a good many years?

Mr. Franson. I do not think it would pay to leave the small trees.

In my judgment it would be better to cut it clean and plant the ground with seed.

The CHAIRMAN. If the State could handle it, wouldn't it be a wise thing to try to save the trees that are there until they should grow large enough to be of some use?

Mr. Franson. Yes; it would, if the small timber was not destroyed when it was cut down; but in a heavy spruce swamp, after you take the timber out, it will not leave very much.

The CHAIRMAN. We saw some that was pretty thick where I should not think it would average 4 inches, and lots of it was only 2 and 3 inches.

Mr. Franson. Close to the open part of the swamp, yes, there is some that runs from 2 inches up to 5 inches probably.

The CHAIRMAN. That 2-inch stuff is not good for anything?

Mr. Franson. Not that I know of. By leaving it standing there it should in time be the same size as the balance of it, I should think; and probably the drainage of the swamps would hasten the growth

The CHAIRMAN. Can these swamps around here be drained without

affecting the lakes?

Mr. Franson. All the swamps in Koochiching County can be drained, every one of them.

The CHAIRMAN. Drain them into the lake?

Mr. Franson. Drain them into the river below.

The CHAIRMAN. Into the Rainy River?

Mr. Franson. Into the Little Fork and Big Fork and Rainy River, and the State is putting in a number of ditches now.

The CHAIRMAN. How far down from here do the Big Fork and

Little Fork come into the river?

Mr. Franson. It is 12 miles to Little Fork and about 16 or 17 miles to Big Fork.

The CHAIRMAN. Is the timber very much the same up along those

rivers as it is here?

Mr. Franson. It is high-land spruce close to the river banks and farther back it is very thick swamp spruce.

The CHAIRMAN. Is most of that soil, while it is swampy, consider-

ably above level of the water in the river?

Mr. Franson. It is as high as 20 or 25 feet above the water in the river, but it seems to be held in there like in a basin. The landaround the river is higher for a quarter of a mile or half a mile, and when a ditch is run through there and into the swamps it can be drained very nicely.

The Chairman. The State is now engaged in doing that?

Mr. Franson. They are now doing that.

The CHAIRMAN. Do you think that will benefit the spruce or

injure it?

Mr. Franson. In my estimation it will probably hasten the growth of the small spruce equal to what we looked at the other day. The larger spruce is close to the high land and gradually growing smaller as you get down to the low land. That makes me believe that it should grow larger after the land is drained out.

The CHAIRMAN. Then you have up here a little white pine?

Mr. Franson. Yes.

The CHAIRMAN. Some balsam?

Mr. Franson. Yes.

The CHAIRMAN. Some Norway pine?

Mr. Franson. Yes.

The CHAIRMAN. A large amount of spruce, both black and white?

Mr. Franson. Yes.

The CHAIRMAN. A lot of quaking aspen? Mr. Franson. Poplar we call it here.

The CHAIRMAN. You have no large oak?

Mr. Franson. We have some oak along the rivers; on the extreme low land along the rivers.

The CHAIRMAN. Does it grow large?

Mr. Franson. We have oak as large as 2 feet on the stump.

The CHAIRMAN. It is red oak, I judge.

Mr. Franson. Yes, sir.

The CHARMAN. You have a good deal of the paper-leaf birch?

Mr. Franson, Yes.

The CHAIRMAN. Do you have any of it that grows very large?

Mr. Franson. I have seen birch as large as 18 inches.

The CHAIRMAN. I remember down in the Leech Lake country I saw great quantities of it a foot and 2 feet in diameter.

Mr. Franson. We have a great deal of birch here running all the

way from 8 inches to a foot.

The CHAIRMAN. What is that used for?
Mr. Franson. The largest and straightest part of it is used for flooring, and they use it a good deal in the furniture factories.

The CHAIRMAN. You have no maple, either hard or soft?

Mr. Franson. Not to speak of.

The CHAIRMAN. No cherry that grows large?

Mr. Franson. No.

The CHAIRMAN. You have a good deal of tamarack? Mr. Franson. Yes; we have a good deal of tamarack.

The CHAIRMAN. And a large amount of what you call cedar?

Mr. Franson. Yes; we have cedar that will cut as high as 60 and 70 foot poles here, and as large as 3 feet on the stump.

The Chairman. Do they have more cedar east of you, or do you

have more here than they do there?

Mr. Franson. We have two or three nice townships of cedar about 20 miles east and south of here.

The CHAIRMAN. We are going over into St. Louis County. Do you know how their forests over there compare with the forests here?

Mr. Franson. I have been in part of the St. Louis country close to the line and up along the lakes along the boundary line and it is a good deal of Norway pine, some white pine and spruce in some places.

The CHAIRMAN. I think the most of the pulp wood that has been

cut in the West in recent years in the way of spruce pulp wood has been cut in the western portion of Minnesota where they were cutting cedar poles, probably. That would be very similar to your spruce

here, I should judge.

Mr. Franson. Yes; you will find some very good spruce on the high land which males good pulp wood and is too small for saw logs.

The CHAIRMAN. The spruce that they are cutting over there is generally the black spruce, very small and very old, if we can judge by what we have seen in the yards at the mills, both in this State and Wisconsin?

Mr. Franson. That must come from the spruce swamps such as we

have been looking at.

The CHAIRMAN. I think very much the same. I understand they cut it clean, and they cut the pulp wood out when they cut it for cedar poles, primarily. I think that is all, but I would like to express to you the thanks of the committee for the aid you have rendered us and the great courtesy you have extended to us. Do you know Mr. L. W. Ayer?

Mr. Franson. Yes. He is the first white man born in Minnesota.

The CHAIRMAN. He is an experienced cruiser?

Mr. Franson. Yes, sir.

The CHAIRMAN. You call a man who goes through the woods estimating the timber a cruiser?

Mr. Franson. Yes; and Mr. Ayer has done that very near all his lifetime.

The Chairman. He has been making estimates for Mr. Backus or the company here now for how long?

Mr. Franson. He has done a good deal of estimating through this

part of the country, I think, for Mr. Backus and other parties.

The Chairman. Mr. Backus showed us the other day estimates on all of the land, I think, in the Rainy River basin. Was that mostly done by Mr. Aver?

Mr. Franson. I think a good deal of it was done by Mr. Aver and

one or two helpers that he had. He was the head.

The CHAIRMAN. He is a perfectly competent, experienced cruiser

and estimator?

Mr. Franson. Yes; he is a very reliable man. As compared with other cruiser's estimates, they claim that he is not very high in his estimates. His estimates are very sure, because he does not fix it any higher than he is sure of.

The CHAIRMAN. You know a hog buver gets so he can guess the

weight of a hog almost absolutely correctly.

Mr. Franson. I know.

The CHAIRMAN. Do cruisers get so that they can estimate the forest

accurately, or is it largely a guess at best?

Mr. Franson. With long experience they come very close. I have had pieces estimated by cruisers and afterwards cut the timber, and on 40 acres and 80 acres and 100 acres they have been within 10,000 or **15.000.** 

The CHAIRMAN. That is, 10,000 or 15,000 board feet?

Mr. Franson. Yes.

The Chairman. What percentage would that be—10 per cent or 5 per cent?

Mr. Franson. That would be 5 per cent—somewhere along there.

Probably a good deal less. In some cases, only 2 or 3 per cent.

The CHAIRMAN. Will two cruisers entirely unknown to each other, estimating the same piece, come within 10 or 15 per cent of each other?

Mr. Franson. They should do that, on a tract of timber land.

The CHAIRMAN. Are there very many experienced cruisers in the country?

Mr. Franson. We have a number of cruisers who have had a good

deal of experience.

The CHAIRMAN. Are they busy the most of the time?

Mr. Franson. They are busy a good deal of the time; yes.

The CHAIRMAN. Can a man who has not had that experience go into a forest and estimate the quantity of standing timber with any degree of accuracy?
Mr. Franson. The way they get their experience a new man gen-

erally goes along with an old hand until he gets to be competent.

The CHAIRMAN. There is talk of having the Government take a census of the standing timber, and I have wondered a good many times whether, if it undertook to do that, there would be anybody to take the census.

Mr. Franson. There are numbers of cruisers. Of course, the most experienced cruisers are kept by the timber companies estimating timber when they are buying, and generally they stay with that com-

pany for years.

The Chairman. When a man goes to buy or a company goes to buy a piece of timber, is it the usual custom for them to have somebody cruise it before they purchase?

Mr. Franson. Certainly; they send their cruiser out and have it

The CHAIRMAN. They send an experienced man and rely upon his estimate?

Mr. Franson. Yes.

The CHAIRMAN. The head of the concern does not just ride through on a railroad train and determine how much there is there.

Mr. Franson. They buy on the cruiser's estimate.

The CHAIRMAN. We are endeavoring, by looking at two or three spots, to settle how much pulp wood there is in the United States. I do not know but we will come as near doing it as they do.

Mr. Franson. There is one thing that I would like to ask you to take up with Colonel Andrews, the forest commissioner, probably next summer. It is a little late this fall and all the danger is over. That is, that the State put in a few fire wardens through the country. It would probably save thousands and millions of dollars by giving the man that is on the ground authority to call the people and pay them for it and get the fires out in the beginning. I wrote to Mr. Andrews myself this summer once or twice, and he replied that the officers which I mentioned before were commissioners and that they had authority, but a man that is doing his own work around the city is not the proper man for it.

The COMMISSIONER. Do you know where the United States forest

reservation is up here?
Mr. Franson. I think the United States has got a park, but I have

forgotten what townships they are.

The CHAIRMAN. Could you give an estimate as to the yield in cords of the highland spruce, or does that grow so dense as the black spruce?

Mr. Franson. It is very hard.

The CHAIRMAN. The highland spruce is much more scattered?

Mr. Franson. It is more scattered and larger.

The CHAIRMAN. Is there very much forest here anywhere that contains no spruce?

Mr. Franson. There is more or less spruce on every acre of ground

where other timber grows.

The CHAIRMAN. We went through a lot of highland spruce yester-

day; what did you estimate that?

Mr. Franson. I think I stated yesterday that the place where we stopped would run all the way from 30 to 45.

The CHAIRMAN. That is where we stopped for luncheon?

Mr. Franson. Yes.

The CHAIRMAN. Was that white or black spruce?

Mr. Franson. That was black spruce.

The CHAIRMAN. In order to get a train for Duluth we have got to go over to Canada?

Mr. Franson. That is the only way, unless you take the Dan Patch

and go to Ranier.

The CHAIRMAN. I noticed in coming from Ranier to this point, International Falls, that close to Ranier we came to rapids where the channel is very narrow and very deep.

Mr. Franson. Yes; it is a very dangerous place.

The CHAIRMAN. Is there quite a good deal of navigation on that river?

Mr. Franson. There is a great deal; at least 10 or 15 boats every

day during the summer.

The CHAIRMAN. How wide is that channel, do you think, where it is deep enough for a boat to go through?

Mr. Franson. The main channel is not more than 50 to 75 feet

and is deep enough for the large boats to pass.

The CHAIRMAN. On each side of that is shallow water coming over

the rocks, but still rocks that you can not see?

Mr. Franson. There are rocks that you can not see. It is a rocky reef coming out on each side of the channel. The channel is deep enough for any boat to pass if they are in the right place, but if they should get away 50 feet to one side they might land on the rocks.

The CHAIRMAN. Is there any such thing as coming through there

with a boat going at slow speed?

Mr. Franson. Not going down. They have to go with very high speed. They must run the engine fast enough to steer the boat. There is no way of running with slow speed down there.

The CHAIRMAN. How should that be fixed, so far as marks are con-

cerned ?

Mr. Franson. The easiest and best way would be to put a light on each side of the channel.

The CHAIRMAN. What would they put the light on?

Mr. Franson. It would be very easy to put the foundation right on the solid rock. Very early in the spring it is out of water.

The Chairman. I thought you had high water in the spring?

Mr. Franson. I mean early—before the water is coming down.

The CHAIRMAN. Do you mean in February or March?

Mr. Franson. No; we have low water in the lake in May often, and the highest stage of water is in July and August. The Chairman. When does the snow melt here?

Mr. Franson. In April and May, but we have four or five lakes above, which the water goes into first, and it takes that time to fill the lakes, and the basin is so large that it takes about two months for the water to get down here.

Duluth, Minn., October 20, 1908.—10 a.m.

## STATEMENT OF LOUIS R. MARTIN, OF DULUTH, MINN.

(Sworn and examined by the Chairman.)

The CHAIRMAN. Will you give your full name?

Mr. MARTIN. Louis R. Martin.

The CHAIRMAN. Your residence is here in Duluth?

Mr. MARTIN. Yes, sir.

The CHAIRMAN. We are endeavoring to ascertain as far as possible the present and the available future supply of pulp wood, particularly spruce, that may be used by the pulp-wood mills; and we would like to ascertain as far as practicable the pulp-wood supply, or spruce

wood forests in Minnesota, and also as far as we can get any information across the line in Canada, the purpose of the committee being just at present to endeavor to ascertain whether the spruce forests of this country will supply the demand for pulp wood in the future, and if that does not seem probable, whether there is a supply of wood in Canada that would be available for the use of the pulp and paper mills of this portion of the country, at least, if we could make satisfactory reciprocal arrangements with Canada, if that is necessary. You are engaged in the supplying of pulp wood, are you?

Mr. Martin. Yes, sir.

The Chairman. Do you cut on your own land or purchase or make arrangements with other contractors?

Mr. Martin. I operate my own land, and buy from settlers and

contractors.

The CHAIRMAN. Do you sell more or less pulp wood to the Wisconsin and Minnesota mills?

Mr. MARTIN. My pulp wood this last few years has all gone to Wisconsin.

The CHAIRMAN. Which one of the companies there?

Mr. Martin. Grand Rapids, the Northern Paper Company.

The CHAIRMAN. They supply three or four of the mills in the Wisconsin River Valley?

Mr. MARTIN. They have their own mills there. It is all one outfit.

The CHAIRMAN. It is all one outfit in buying pulp wood?

Mr. MARTIN, Yes sir: and they supply other mills there

Mr. Martin. Yes, sir; and they supply other mills there.
The Chairman. Three large mills there, I think, they supply?

Mr. Martin. Yes, sir.

The CHAIRMAN. Do they make an arrangement at some season of the year, or contract for the purchase and supply of pulp wood for the year?

Mr. Martin. Yes, sir.

The CHAIRMAN. There has been no arrangement made yet for the next year?

Mr. Martin. They have all they want now for the next year.

The CHAIRMAN. How do you get together the pulp wood that you

supply?

Mr. Martin. In two cases, I buy it from settlers along rivers and take out my own timber there also and drive it down to shipping points. That is shipped in the summer time. Also ship from side tracks and stations along the different roads. It is hauled all the way from 1 to 2 miles to 7 or 8 miles.

The CHAIRMAN. Is that wood that is cut on your own land or

wood that settlers cut?

Mr. Martin. Both ways.

The CHAIRMAN. How far back do the settlers bring in wood from? Mr. Martin. Some are hauling 7 or 8 miles, if they have pretty good roads.

The CHAIRMAN. When do they haul that in? Mr. MARTIN. During the winter on sleighs.

The CHAIRMAN. Are there many settlers along that line?

Mr. Martin. Yes; we have a lot of them that have got a lot of wood.

The CHAIRMAN. On what road do you operate mainly?

Mr. Martin. Most all the roads, the Missaba and Northern, the Iron Range, the Great Northern, the Northern Pacific, and we get a little wood in Wisconsin.

The Chairman. Are there a good many settlers along all these

roads, homesteaders?

Mr. Martin. Yes, sir; and those who have bought the lands from railroads and others.

The CHAIRMAN. It is mostly railroad land?

Mr. Martin. Some of it is and some is homestead, and they gradu-

ally cut so much each year and clear up.

The CHAIRMAN. The railroad land that has been sold to settlers, is that land the railroads acquired from the State or the General Government?

Mr. Martin. It is old land grants, most of them.

The CHAIRMAN. State land grants or government land grants?

Mr. Martin. Both.

The CHAIRMAN. The State land grants, I suppose, are composed of lands acquired by the State under the swamp land act?

Mr. MARTIN. Yes.

The CHAIRMAN. What character of spruce is it?

Mr. Martin. We have some of the best white spruce that, I guess, there is anywhere.

The CHAIRMAN. Do you sell that to the paper mills.

Mr. MARTIN. Yes, sir.

The CHAIRMAN. How large will that run?

Mr. MARTIN. From 4 inches up to 10 or 12, and some a little larger. The CHAIRMAN. Do you cut that green in the forest when you cut it?

Mr. Martin. Yes; supposed to.

The CHAIRMAN. What other timber is there mixed in with the spruce or that the spruce is mixed in with in the uplands?

Mr. Martin. There is not much on the upland. It is mixed with

tamarack and a little cedar.

The CHAIRMAN. There is no tamarack and cedar on the upland, is there?

Mr. Martin. Yes; a little; not very much. It is mostly in the swamps. Up on the north shore cedar grows on the highland, but there is very little spruce there on the highland.

The CHAIRMAN. Do you mean by the north shore the north shore

of Lake Superior?

Mr. MARTIN. Yes.

The CHAIRMAN. Is most of the better wood the white spruce or the black swamp spruce?

Mr. MARTIN. It is what we call "white spruce" here.

The CHAIRMAN. Is the spruce that grows in the lowland white spruce too?

Mr. Martin. Yes, sir; we call it white. It is white.

The CHAIRMAN. At International Falls they call it black spruce.

Mr. Martin. Probably it is a little different color from what we have here on the rivers. We have a pretty good quality of spruce here.

The CHAIRMAN. That which grows in the low ground, how does it grow there, thick or sparse?

Mr. Martin. Some is in spots and some is very thick.

The CHAIRMAN. How large does that grow where it is thick?

Mr. Martin. We have got some that will run up, I think—some this year we have piled up on the St. Louis—that will run up to 12 and 14 inches.

The CHAIRMAN. Is that the swamp spruce?

Mr. Martin. Yes.

The CHAIRMAN. How does the swamp spruce average in thickness?

Mr. MARTIN. That is about what it is, from 4 inches up. We get it as low as 4 inches.

The CHAIRMAN. Four inches up is a wide limitation. What would be the average in your judgment?

Mr. Martin. You can not tell very well. I should say 6 or 7 inches.

Mr. RYAN. Is that a good estimate of your shipments the last year as to size?

Mr. Martin. Yes; I have been shipping for a good many years, and

that is about my experience.

The Chairman. We saw a great deal of spruce in Wisconsin that was shipped from up here that was far from being 4 inches. Lots

of it was not 2½.

Mr. Martin. Their contracts call for it not less than 4 inches at the top. If it is any smaller it is almost useless for paper.

The CHAIRMAN. There isn't much left by the time it rossed?

Mr. Martin. No.

Mr. RYAN. They had over 15,000 cords at Combined Locks that did not average over 3 to 3½ inches.

Mr. MARTIN. That was not much good. We have got a lot of good

spruce in this country, and good size.

The CHAIRMAN. How widely scattered, how general is that spruce through this portion of the country? In other words, what proportion of the ground is covered, in your judgment?

Mr. MARTIN. I could not make a guess at that. In a small terri-

tory last winter I purchased a body of about 40,000 cords.

The CHAIRMAN. In how wide an area? Mr. Martin. Mostly in St. Louis County.

The CHAIRMAN. I suppose there are many thousand cords of spruce in St. Louis County left?

Mr. Martin. Oh, yes.

The CHAIRMAN. Do these spruce forests run rather continuously or is the spruce scattered in spots?

Mr. MARTIN. It is mixed. You run into one territory where it

is heavy spruce and get up on the highland and find pine.

The CHAIRMAN. There is some upland spruce scattered all through the forests?

Mr. Martin. Yes, sir.

The CHAIRMAN. Then there will be spots where it is almost exclusively spruce on the lower land?

Mr. MARTIN. Yes, sir.

The CHAIRMAN. That runs into tamarack?

Mr. Martin. Not very much tamarack, but sometimes mixed tamarack and spruce.

The CHAIRMAN. Is there much muskeg around this country?

Mr. MARTIN. Yes, sir.

.. The CHAIRMAN. Does anything grow in that that is worth cutting?

Mr. Martin. No; not very often.

The CHAIRMAN. We saw large quantities of spruce both up in Koochiching County and on the way from there here that seemed to be very small on the average, some of it not over 2 to 3 and 4 and 5 inches, and that was tall and very closely set; how old would that be?

Mr. MARTIN. You could not tell. If you saw some of the piles around here you would see some nice stuff. I have a big pile up on the Missaba road. I guess there will be about a thousand cords piled up there when we get through.

The CHAIRMAN. What will that average?

Mr. Marrin. I think 6 inches. A little more than that. Some as high as 13 inches.

The CHAIRMAN. Is that cut from the swamp spruce?

Mr. MARTIN. Yes, sir; driven down the rivers.

The CHAIRMAN. Have you ever counted to see how old that is? Mr. MARTIN. No. Do you mean how long it has been growing?

The CHAIRMAN. Yes.

Mr. MARTIN. No; it is older than I am, I guess.

The CHAIRMAN. I guess a good deal of it is older than your grandfather.

Mr. MARTIN. Yes, sir.

The CHAIRMAN. Is there much spruce left available close to the railroad tracks as they now lie?

Mr. Martin. We have a lot yet and a lot available to the rivers

and the lake.

The CHAIRMAN. Lake Superior?

Mr. Martin. Yes.

The CHAIRMAN. How do they get spruce down that they cut on the north shore?

Mr. Martin. I used to, when I operated there, bring it on a scow with a tug.

The CHAIRMAN. Is there much spruce that goes out of Two

Harbors?

Mr. Martin. I do not know what they are doing there now. I have not operated on the north shore for the last two or three years.

The CHAIRMAN. Do you know whether any spruce comes down

from Port Arthur?

Mr. Martin. I do not know.

The CHAIRMAN. Are you familiar with the Canadian country up there?

Mr. Martin. No, sir. The Chairman. You never have operated up there?

Mr. Martin. No, sir.

The CHAIRMAN. What will this thick spruce forest average in cords per acre?

Mr. MARTIN. That is hard to tell; it is so different. I haven't got

any of my estimates here, but we have some mighty thick stuff.

The CHAIRMAN. Have you any idea what that will average in cords

per acre? Mr. MARTIN. No, I do not recall it. I have got the estimates in my office. I could give you that information before you go away.

The CHAIRMAN. Have you any idea as to the average in cords per acre of spruce wood in St. Louis County?

Mr. Martin. No, not as to the average. I could tell what my

average is.

The CHAIRMAN. That is on your own ground?

Mr. Martin. My own stuff, yes.

The CHAIRMAN. Is that timber that you speak of, your own timber, on land that you own, or where you own the stumpage?

Mr. Martin. Mostly where I own the stumpage. Some places I

own the land also.

The CHAIRMAN. Where you own the stumpage, who owns the land, the railroad company?

Mr. Martin. Different people.

The Chairman. After the spruce is cut off is the land being used for agricultural purposes?

Mr. Martin. In a good many places it is. The Chairman. What do they do with it?

Mr. Martin. Farm it. They start in clearing up gradually.

The CHAIRMAN. What do they raise on it?

Mr. Martin. Vegetables mostly, and hay. They can raise some grain.

The CHAIRMAN. Where do they ship the vegetables to? Mr. MARTIN. They find a market mostly in Duluth.

The CHAIRMAN. Of course, that is a very limited market for a

large area of country.

Mr. Martin. There is a good market here, taking in the mining towns and Duluth. They do not have to go outside to sell any of their products.

The CHAIRMAN. . Not yet.

Mr. MARTIN. No, the market is good. The price is a good deal

different between Duluth and St. Paul.

The CHAIRMAN. Of course, that means a very limited area of farms, I take it. It does not take a large area of farming land to supply this country with vegetables.

Mr. Martin. We have some ten or fifteen years' settlements in here.

The CHAIRMAN. Do they raise many potatoes?

Mr. Martin. Yes, quite a few.

The CHAIRMAN. What percentage in your judgment of the land that has been cleared of forest is being used for agricultural purposes?

Mr. Martin. It would be pretty hard to guess. I don't know; I would not want to say. We have a great many more settlers here

than an outsider would imagine.

The Chairman. Have you any idea as to the percentage of spruce pulp wood that you get that is cut by the settlers?

Mr. Martin. I presume about one-half.

The CHAIRMAN. With them that is a by-product?

Mr. Martin. Yes; they take that out in the winter time, and, of course, that helps them to get capital to live along until they improve their property.

The CHAIRMAN. That helps them to get money and at the same

time to clear the land?

Mr. Martin Yes, and build their buildings.

The CHARMAN. Their prime purpose is to clear the land?

Mr. Martin. I presume so.

The CHAIRMAN. Do they generally endeavor to take out the stumps, or simply pasture the land?

Mr. MARTIN. Lots of them have not got a stump on their land.

The CHAIRMAN. Are there any drainage systems in operation up here?

Mr. MARTIN. To my knowledge only natural drainage, creeks and

rivers. In some places they have fine natural drainage.

The CHAIRMAN. Have you any estimate as to the proportion of the forest in this county which has been cut over?

Mr. MARTIN. No, I have not.

The CHAIRMAN. Do you think anyone knows the quantity of timber standing in this county?

Mr. MARTIN. Oh, yes; we have people here that have a pretty good

idea.

The CHAIRMAN. Who would that be, for instance?

Mr. MARTIN. There are several of them, I should imagine. I don't know much about my competitor's business.

The CHAIRMAN. You think he knows about your business, though?

Mr. MARTIN. He may.

The CHAIRMAN. Is there any way we can get at, that you know of, the amount of spruce or other forest in this locality which has been cut over and the amount which is still standing?

Mr. Marrin. No; but I can imagine that take the pulp-wood business, from what I know of it, there is probably enough here to supply the mills up in this country for probably twenty-five years yet.

The CHAIRMAN. That would include the Wisconsin mills?

Mr. Martin. Yes, sir.

The CHAIRMAN. You say up in this country. Do you mean northern Minnesota by that?

Mr. MARTIN. Northern Minnesota and Wisconsin.

The CHAIRMAN. There is no spruce wood left in Wisconsin?

Mr. MARTIN. We get quite a bit there in the winter.

The CHAIRMAN. Do you cut some over there?

Mr. MARTIN. No; we get it from the contractors and settlers.

The CHAIRMAN. Most of the pulp wood over there is hemlock, isn't it?

Mr. MARTIN. No; we do not take any hemlock. It is all spruce.

The CHAIRMAN. Your contracts do not cover hemlock?

Mr. Martin. No.

Mr. RYAN. Where you buy the stumpage on a piece of ground, is there any restriction as to how that shall be cut?

Mr. MARTIN. It specifies what timber you cut.

The CHAIRMAN. In what way; what would it say in that regard? Mr. MARTIN. You would buy outright tamarack and cedar, spruce and pine or whatever you bought.

Mr. RYAN. Whatever you buy you cut, no matter what it is as to

size.

Mr. MARTIN. Yes, sir. There is no size specified in their contracts.

The CHAIRMAN. You cut it clean, I take it?

Mr. Martin. We cut it in accordance with the contracts that we sell on. The timber is ours when we pay for it, the same as if we owned the land, for a certain number of years. We have possession

of it. You can get one of our Minnesota timber deeds and see what the provisions are.

Mr. RYAN. No provision for conservation of any timber?

Mr. Martin. Not unless there is special arrangements for it.

Mr. Ryan. Take the timber land that you own yourself, do you cut it all?

Mr. MARTIN. We do not cut anything that is no good. We cut what will pass under our contracts in selling it.

The CHAIRMAN. You cut all kinds of timber?

Mr. Martin. Yes, sir.

The CHAIRMAN. Cut it down as small as it can be used?

Mr. Martin. Cut it so that it will pass inspection and we get our money for it.

The CHAIRMAN. What is left, I suppose, is no good for timber?

Mr. Martin. Culls is no good.

The CHAIRMAN. Is there any second growth of timber up here?

Mr. Martin. Not that I know of, that is big enough to be of any use in the market now.

Mr. Ryan. Nobody paying much attention to the second growth stuff?

Mr. Martin. No.

The CHAIRMAN. Have the forest fires damaged the forests up here very much?

Mr. MARTIN. I do not think very much in the swamps. In fact, I have not had a stick of timber burned this year, standing timber.

The CHAIRMAN. There has been same damage along the north shore on the high ground?

Mr. Martin. Yes.

The CHAIRMAN. But the black spruce swamps have not been injured materially?

Mr. MARTIN. I do not think they have been injured very much.
The CHAIRMAN. Is there any adequate protection from forest fires
outside of what nature does?

Mr. Martin. Nature has to do it here mostly.

The CHAIRMAN. Would it be advisable in your judgment for the Government in some way, either the State or the General Government or the local government, to provide adequate, or as nearly adequate as possible, protection from forest fires?

Mr. MARTIN. It would be a great help.

The CHAIRMAN. Have you any idea as to the amount of timber along the north shore that has been destroyed by forest fires this last season?

Mr. Martin. No, sir.

Mr. RYAN. Are you selling any spruce wood now in Wisconsin?

Mr. Martin. I sold them enough last fall, I guess, to do.

Mr. Ryan. You have no contracts just now?

Mr. Martin. Only the old ones.

Mr. Ryan. What do you get for spruce timber?

Mr. Martin. I have forgotten what the price was on that last year. I have been away all winter.

The CHAIRMAN. The price delivered in Wisconsin was \$11 a cord? Mr. MARTIN. I think that is about it. Of course, we have nothing to do with the delivering of it after it leaves here.

The CHAIRMAN. Freight rate \$5 a cord. What would it sell for

up here; about \$6 a cord.

Mr. MARTIN. That is about what it brought along the different railroads. That is about the average that the large contractors got.

Mr. RYAN. Freight from where to where?

Mr. MARTIN. From those local points into Duluth.

The CHAIRMAN. That is on a basis of about \$6 a cord at Duluth?

Mr. MARTIN. Yes, taking out the freight.

The CHAIRMAN. Is there much of this pulp wood purchased or traded for by merchants along the railroads?

Mr. MARTIN. Yes, in some places.

The CHAIRMAN. Do the pulp-wood middlemen deal with the mer-

chants, largely, or generally with the settlers themselves?

Mr. Martin. Sometimes with purchasers. If they have the stuff they buy it from them. The merchants, about all they make out of it is the profit on their goods.

The CHAIRMAN. Do you have people go through where the settlers

are hunting for this pulp wood?
Mr. MARTIN. Yes, sir.

Mr. RYAN. The freight rate from here to Wisconsin points would be about \$4 a cord?

Mr. MARTIN. Something like that.

The CHAIRMAN. Do the lumbermen who cut saw logs save any pulp wood ?

Mr. Martin. Oh, yes; some of them take out pulp wood.

The CHAIRMAN. Is that a general thing or an exceptional thing? Mr. Martin. I do not know just what they did here last winter. I was away. Some of them take out pulp wood.

The CHAIRMAN. Do you buy much pulp wood from the men who

are cutting saw logs?

Mr. Martin. Yes: I have.

The CHAIRMAN. Are you familiar with the inquiry that the Bureau of Corporations is conducting as to the forests?

Mr. Martin. Yes; I have heard of it and read of it in the news-

papers.

The CHARMAN. Have you furnished them any information?

Mr. Martin. No.

The CHAIRMAN. They have been up here, haven't they?

Mr. Martin. I haven't seen them.

The CHAIRMAN. When you make an estimate of pulp-wood supply

lasting for twenty-five years, is that a mere guess?

Mr. Martin. It is a kind of a guess, but I know pretty well what the country is like. No man can give you an accurate estimate because we have not estimated the other fellow's stuff altogether, you know.

The CHAIRMAN. Is that general estimate of yours based upon the

present consumption of pulp wood?

Mr. Martin. Yes, sir.

The CHAIRMAN. Does that include, as far as your judgment goes, the pulp wood in all of northern Minnesota?

Mr. MARTIN. In this territory, Minnesota and Wisconsin. The CHAIRMAN. That includes the Rainy River basin?

Mr. Martin. Yes; we call that this territory. It may be a good deal longer than that. That is conservative.

The CHAIRMAN. That is a guess?

Mr. MARTIN. Yes. I have spent about twelve years in the timber business here.

The CHAIRMAN. Is there a noticeable cutting of pulp wood through here in the last ten years?

Mr. Martin. Oh, yes. If you go through where it has been cut you will know it. There is a lot growing here yet.

The Chairman. But you could tell easily that a large portion of

the pulp wood had been already consumed?

Mr. Martin. Yes. I do not know as I can explain it exactly, but there is only a small portion of the timber land of the homesteaders cut yet, and there is lots that has never been entered upon. lots of the big tracts, and the State has a lot here yet. The Chairman. Where is that?

Mr. MARTIN. That is in St. Louis County. The CHAIRMAN. Is it subject to settlement? Mr. MARTIN. The timber is subject to sale.

The CHAIRMAN. And the land?

Mr. MARTIN. I think they mostly sell the timber. The CHAIRMAN. They sell it to be cut clean?

Mr. Martin. Yes; within a certain time. The Chairman. We are very much obliged to you.

Mr. Martin. You are entirely welcome.

## STATEMENT OF DAVID J. CURRY, OF DULUTH, MINN.

(Sworn and examined by the Chairman.)

The CHAIRMAN. Will you give your full name? Mr. Curry. David J. Curry.

The CHAIRMAN. What company are you connected with!

Mr. Curry & Whyte.

The CHAIRMAN. That is of Duluth?

Mr. Curry. Yes, sir.
The Chairman. You heard the testimony of Mr. Martin and the questions which were asked him. Can you state something in your

own way which would be of value to us along the same line?

Mr. CURRY. In listening to him, I thought he made it conservative. The amount that has been cut off only covers a distance along each of these roads running into northern Minnesota, say from 2 to 4 or 5 or 6 miles back, and in many instances the pulp wood comes up to the track, so that in looking at the roads running in there you would get a fair idea of the amount cut off, taking a strip on each side of the track of 3 or 4 miles. That would give you a good idea of how much territory has been cut clean.

The CHAIRMAN. Mr. Martin stated that more or less of the wood

had been cut along the rivers and driven down.

Mr. Curry. I think only the St. Louis and White River. Outside of that there has not been very much pulp wood driven. They cut a little across the lake at Tower, but it doesn't amount to anything.

Mr. Ryan. Along the railroads you refer to, is that along the main

lines?

Mr. Curry. Yes; along the main lines and logging roads.

The CHAIRMAN. How much pulp wood do you think you handle in the course of a year?

Mr. Curry. We do not handle very much. Eight or nine thousand cords—somewhere along there.

The CHAIRMAN. What is the principal business of Curry & Whyte?

Mr. Curry. Ties and logs. The CHAIRMAN. Poles?

Mr. Curry. Yes; we handle some poles. The CHAIRMAN. Where do you cut mainly?

Mr. Curry. In Lake County.

The CHAIRMAN. On your own land?

Mr. Curry. Mostly on our own land. We buy some.

The CHAIRMAN. Do you mean by your own land where you own the

land or the timber?

Mr. Curry. In most cases we only own the timber. We own some land. We have bought mostly from the homesteaders, and they generally want to retain the land or the mineral rights, or something of that kind. We are not always able to get the land.

The CHAIRMAN. Do you buy the stumpage mainly from the home-

steaders?

Mr. Curry. Yes; we have bought some from the logging companies.

The Chairman. Do you cut any saw logs?

Mr. Curry. Yes, sir.

The CHAIRMAN. What is the main business, cutting out saw logs or ties?

Mr. Curry. Ties is our main business.

The CHAIRMAN. What do you cut for ties mainly?

Mr. Curry. Cedar and tamarack.

The CHAIRMAN. You use the larger cedar for ties?

Mr. Curry. Yes, sir.

The CHAIRMAN. Only use the smaller cedar for poles?

Mr. Curry. Posts. A tie runs you down to about 71 inches at the top, and there is not enough left for a pole, and you get two or three posts.

The Chairman. It is more profitable to cut cedar into ties than

into poles?

Mr. Curry. I always think it is. There is always a steady demand for the ties, and the poles you are not always able to sell.

The CHAIRMAN. I thought they were cutting telegraph poles up here ?

Mr. Curry. That is only now and then.

The CHAIRMAN. Do these ties go out of the State?

Mr. Curry. A good many of them go as far west as Montana. Some of them as far south as Chicago.

The CHAIRMAN. A cedar tie is an exceptionally good tie, isn't it?

Mr. Curry. Yes. We got the same price for tamarack last year It is the first year we have been able to do it. as for cedar.

The CHAIRMAN. What is done with the small tamarack?

Mr. Curry. There isn't anything done with it so far. The man cutting ties has not been able to handle the smaller part of it to get anything out of it.

The CHAIRMAN. You do not cut any of it for cord wood?

Mr. Curry. No; wood is too plentiful.

The CHAIRMAN. A tie has to be at least 71 inches?

Mr. Curry. Oh, no; they take it about 5 by 5½ or 5½ by 6, something like that.

The CHAIRMAN. Is your cutting of pulp wood incidental to the

cutting of ties?

Mr. Curry. No; we cut everything clean as we go along. The land we cut over we cut clean.

The CHAIRMAN. Is your main purpose to cut ties, and as you clean

the land you use this small spruce for pulp wood?

Mr. Curry. Yes; we take all the spruce there is on the land. This last year we have been able to buy more spruce than tie stuff.

Mr. RYAN. Why is that?

Mr. Curry. The majority of the claims left are more spruce. That is, the pine claims and larger tamarack claims were taken up years ago, and the home seekers who have gone in in the last four or five years have not been able to get a claim that had much of anything on it but spruce and small tamarack.

The CHAIRMAN. That would be low ground?

Mr. Curry. Not always in low ground. There is possibly some low ground.

The CHAIRMAN. You do not find much tamarack growing on high

ground, do you?

Mr. Curry. Yes; we find considerable. This ground up through Lake County, you take it on top of the hills you will find a wet swamp up there. They call it high land. The State, I think, has several cases on now where the land is high, and they claim it is swamp for the reason it is wet. The homesteaders squatted on it before the survey was made.

The CHAIRMAN. When we refer to high land and low land we

have reference to the quantity of moisture.

Mr. Curry. On this high land you will find plenty of moisture.

The CHAIRMAN. It is swampy land?

Mr. Curry. It would be swampy land. The bottom is very rocky and solid, and the bottom does not seem to dry.

The Chairman. Have you any idea as to the number of cords you

can get per acre from a dense spruce forest?

Mr. Curry. I could give you an idea of what we have estimated this summer.

The CHAIRMAN. Yes.

Mr. Curry. We estimated 72 forties that ran over 400 acres to the forty.

The CHAIRMAN. That would be 10 cords an acre.

Mr. Curry. Thereabouts. That was in one tract. I think that is probably higher than the average spruce. I would call it a very good piece.

The CHAIRMAN. That had considerable spruce on it?

Mr. Curry. Yes; that was good spruce land. Mr. Ryan. What size were the spruce trees?

Mr. Curry. In estimating that we estimated what was 4 inches at the top, making a couple of sticks 4 inches at the top up to as large as it would grow. It ran in that tract up to 12 or 14 inches, which is a swamp spruce.

The CHAIRMAN. Where you cut this clean is there any reproduction

of the forest in Minnesota at all?

Mr. Curry. Yes; you can find some where it was cut over eight or nine years ago up along the Iron Range road, where there is quite a young growth of spruce left, and in places where the fire does not get in the spruce does not die out. There is moisture enough so that the young spruce grows, and grows faster than it did before the other was cut out.

The Chairman. Does fire always eventually get into that young

Mr. Curry. No; take it along the logging roads they do not clear any right of way and generally it burns. Along the Iron Range road last year where it was cut off eight or ten years ago there is a good growth of spruce.

The CHAIRMAN. How large would that spruce be?

Mr. Curry. That would be now probably 4 to 5 inches at the butt of the tree.

The CHAIRMAN. Do you think we can find any spruce up there that has been cut over where the young spruce is 5 inches at the butt?

Mr. Curry. I think you can, unless it has burned within the last two months.

The CHAIRMAN. It would still be there, burned or not?

Mr. Curry. Yes; the spruce will be there.

The CHAIRMAN. That would seem to indicate that spruce would

grow rather rapidly.

Mr. Curry. Say it was cut seven or eight years ago. They took everything, as I say, down to 4 inches; that is, that would make a stick 4 inches at the top. That has grown some since so that there would be some there. In fact, I cut some last winter out of spruce that had been cut before.

The Chairman. That was spruce that was standing when it was

cut over before.

Mr. Curry. Yes, sir.

The CHAIRMAN. Generally where they cut over the small spruce is

there any of it left; isn't it all broken down?

Mr. Curry. No; the spruce is light and in falling it does not break the other down. You can go in and see that small spruce which is left standing from the cutting.

The CHAIRMAN. We have not seen any in traveling over the State.

Mr. Curry. There is some up here.

The CHAIRMAN. We have seen quite a bit of spruce forest where it would run from 2 to 4 inches generally, with some around that would go considerably more than that, and I have wondered whether when that was cut there would be anything left.

Mr. Curry. Take where Mr. Caldwell cut up here, there is quite a growth of young spruce left. In a dry season like this the swamps

do not burn.

The Chairman. Have you any idea as to the age of the spruce in the dense forest?

Mr. Curry. I never tried to look that up.

The CHAIRMAN. Never figured on that at all?

Mr. Curry. No.

The CHAIRMAN. What do you call this—all white spruce?

Mr. Curry. We have always called it white spruce.

The CHAIRMAN. The spruce that grows in the muskeg?

Mr. Curry. Yes, sir.

The CHAIRMAN. You think it is all the same character of spruce?

Mr. Curry. It is all the same character. There is a whiter spruce that grows on the high land—a lighter colored bough and lighter colored bark. The wood is not any whiter, that I can see. It is a softer spruce.

The CHAIRMAN. You think there is a slight difference?

Mr. Curry. Yes; there is a slight difference.

The CHAIRMAN. Do you call it all white spruce?

Mr. Curry. Call it all white spruce; yes.

Mr. Arnold. Will you let me make a suggestion?

The CHAIRMAN. Certainly.

Mr. Arnold. My cruiser, in reporting a great deal of our land, reports the muskeg, which they report upon as being fairly open or covered with scattered growth, and sometimes a dense growth of small black spruce. I have always understood that that was not a pulpwood spruce, that is, was not spruce that was considered merchantable.

Mr. Curry. I think that is. That muskeg, I have found it with spruce growing in it. After it gets high there is so much moisture or something in it that it dies off. Whether it is wet or not, I don't know. You will find it dying after it gets a certain height. The young growth will look green and nice. That is only in a low muskeg place that I have found it that way.

The CHAIRMAN. We have seen some pretty dense forests growing

in the muskeg.

Mr. Arnold. I know we have thousands of acres of that kind of stuff. Sometimes there is practically no timber on it, just moss, and then it will grow in bunches, and sometimes forests of this small dense spruce. We do not consider that of any value except a possible future for the land in an agricultural way that we are now trying to work out with the aid of the university here.

The CHAIRMAN. Very likely it is of no value except that it makes a very good quality of ground wood where it is large enough to be

profitable to handle.

Mr. Arnold. I have always understood from our university people here who are connected with the forestry department that there is a difference between the growth of that character of spruce and the

other spruce that we get.

The CHAIRMAN. The upland spruce is undoubtedly somewhat different, but still there will be lots of that that has grown very small. I suppose that very likely what they call the muskeg where it is extremely wet does not grow long-lived spruce. There comes a season when either by reason of the water freezing around it or by reason of the excessive standing in water it may kill it off. Where the muskeg is not quite so wet we have lots of dense black spruce forest, and they call that muskeg.

Mr. Arnold. Is that of a merchantable size or quality?

The CHAIRMAN. Oh, yes. That is mostly what they have down here at the paper mills, and if you will keep yours, with a little drainage for a hundred years, and keep the forest fires out, you likely will be able to do something with it. May be in less time than that. Have you any judgment, Mr. Curry, as to the effect of the drainage of the ground upon the spruce forests?

Mr. CURRY. I haven't had any experience in that. I would say, though, that it would kill the spruce, although on the north shore you find spruce that grows from 10 inches to 2 or 2½ feet through that is not in the swamp at all. It is on high land.

The CHAIRMAN. Have you any estimate as to the quantity of forest left standing in St. Louis County, and particularly the spruce

forest?

Mr. Curry. No.

The CHAIRMAN. Have you any estimate as to the proportion of the forest that has been cut over?

Mr. Curry. I do not think a fifth of it has been cut.

The CHAIRMAN. Do you think close to one-fifth has been cut?

Mr. Curry. Possibly.

The CHAIRMAN. Is the forest up here mainly pulp-wood forest or is it saw log?

Mr. Curry. I should say a good deal of it was saw log. The better

part is saw log.

The CHARMAN. Do you think more than 50 per cent of it is good for saw logs?

Mr. Curry. Yes, sir.

The CHAIRMAN. Would there be some pulp wood in that forest?

Mr. Curry. Yes; in that there would be some.

The CHAIRMAN. Usually where they cut for saw logs, do they save

the pulp wood?

Mr. Curry. Yes; they do now. The price is so that if they do not save it themselves they sell it to some small jobber, who gets it out.

The CHAIRMAN. Goes over after them and picks it up, you mean? Mr. CURRY. Yes, sir; generally the same year that they cut the logs off.

The CHAIRMAN. Is that done more or less?

Mr. Curry. Yes, sir.

The CHAIRMAN. Quite considerably?

Mr. Curry. Yes, sir.

The CHAIRMAN. Is that where the lumbermen cut out all the logs that they can?

Mr. Curry. Yes.

The CHAIRMAN. Some contractor goes in and saves what is left? Mr. CURRY. Yes, sir. I do not think you will find any of the lumbermen letting their timber go to waste as they used to.

The CHAIRMAN. Would that include any of the tops?

Mr. Curry. That would take out a stick out of the top if there was any left. A man cutting logs takes his logs down as low as you cut pulp wood, 4 inches.

The CHAIRMAN. What do they do with that 4-inch stuff?

Mr. Curry. Make lath.

The CHAIRMAN. So that when they cut it for lumber, for saw logs,

there is not very much left?

Mr. CURRY. In the swamps, if there isn't any pine, they won't go in and cut the spruce for logs, but if they should be out in pine cutting some spruce scattered in there, they cut it down to 4 inches, the same as they cut their pine.

The CHAIRMAN. Is the forest up here on the higher land largely

white and Norway pine?

Mr. Curry. White pine until you get to the north part of the county and then you get Norway. Lake County has but very little Norway in it.
The Chairman. Are settlers generally cutting during the winter?

Mr. Curry. Yes. sir.

The CHAIRMAN. They put in their time during the winter cutting pulp wood mainly?

Mr. Curry. And ties; yes, sir.

The CHAIRMAN. Is there any effort that you are acquainted with

being made to drain this land?

Mr. Curry. Not in this part of the State. I think the State is putting in some drainage ditches in the western part of the State, not up in the northern part.

The CHAIRMAN. Have you any estimate as to how long the spruce

forests here would last at the present rate of consumption?

Mr. Curry. It would be considerable of a guess. I should say from thirty to forty years. As I say, in looking over the railroads as they run through the different parts of the State you would get a pretty good idea of the amount cut over. It could be found how much has gone out of this territory, and a good average could be figured from that as to how much was left.

Mr. Ryan. Your estimate, of course, is just a guess?

Mr. Curry. Just a guess.

The CHAIRMAN. What do you figure the annual cut would be for

forty years to exhaust the supply?

Mr. Curry. I presume they get out of this territory somewhere in the neighborhood of a million cords a year.

Mr. Ryan. You think that there is perhaps about 40,000,000 cords standing in Minnesota of spruce?

Mr. Curry. Yes; I think there is that, if not more. The CHAIRMAN. You base your statement as to the supply which now stands upon your experience and observation from seeing the forests disappear during the last few years?

Mr. Curry. Yes, sir.

The CHAIRMAN. How long have they been cutting pulp wood up here ?

Mr. Curry. I think they have been cutting for about ten years; that is, in quantities. I do not know but they cut a little before that.

The Chairman. How long since the Wisconsin mills commenced to work in this territory?

Mr. Curry. I think about ten years; possibly fourteen.

The CHAIRMAN. Before they commenced to cut spruce pulp wood

up here was this small spruce forest considered of any value?

Mr. Curry. No; I do not think it was. They did not try to save it, at least, or do anything with it. There wasn't any demand for spruce lumber at that time.

The CHAIRMAN. You can not use that small stuff for spruce

lumber?

Mr. Curry. It makes good lath and a 6 or 7 inch spruce they cut into lumber.

The CHAIRMAN. You said a moment ago that the lumbermen, in cutting over, if they came to a spruce swamp they would not go in there unless there was pine there?

Mr. Curry. No.

The CHAIRMAN. They won't go in there to get out that lath?

Mr. Curry. No.

The CHAIRMAN. They only take for lath the spruce that they find in the forest?

Mr. Curry. Yes; in their pine cutting.
The CHAIRMAN. If they ran short of spruce in the pine cutting, they might go in and commence to cut pulp-wood spruce for lath?

Mr. Curry. No, sir. I do not know but what the Cook and O'Brien people cut some spruce for lath, I am not sure of it, at Virginia.

The CHAIRMAN. We saw some very nice-looking saw logs at Vir-

ginia. I don't think I saw any small stuff.

Mr. RYAN. They did try that and they have a very nice lath mill there. They did try it a couple of years ago. Whether it did not pay or what I don't know. They may not be cutting it now.

The CHAIRMAN. If the pulp wood at the present rate of consumption would entirely disappear in forty years here, what will they

do for pulp wood then?

Mr. Curry. There are other places. There is considerable in the

West.

The CHAIRMAN. If half of what is now remaining should disappear in twenty years, don't you think that would have the effect of increasing the price of pulp wood for the remaining twenty years?

Mr. Curry. Possibly it would. I presume it would, except that they might shift their mills into the West or South or somewhere

where there was more spruce.

The CHAIRMAN. That is assuming that there is spruce in those countries, but, as a matter of fact, there is not much spruce in the

Mr. Curry. There is in the West.

The CHAIRMAN. So far as we can ascertain, not very much in the

Mr. Curry. I was offered a tract in the South last year.

The CHAIRMAN. Where?

Mr. Curry. I have forgotten just what point. I have letters at the office.

The CHAIRMAN. Of pulp-wood spruce?

Mr. Curry. Yes, sir. The Chairman. Do you care to state what State it is in?

Mr. Curry. I don't know. But I can get you the letters over there. The CHAIRMAN. I wish you would. If we can find pulp wood down there we would like to find it.

Mr. Curry. I think the letters are there yet. I am sure they are. The CHAIRMAN. I think I have never seen any spruce growing in the South.

Mr. Curry. It was a new one to me when that came up.

The CHAIRMAN. Maybe he thinks jack pine is spruce. There is lots of that down there.

Mr. Curry. There is considerable spruce in the West. I have been there.

The CHAIRMAN. There is some spruce in Idaho?

Mr. Curry. Yes, sir.

The CHAIRMAN. Some in Montana?

Mr. Curry. Yes.

The CHAIRMAN. Some all over the Rocky Mountains, but that is hardly available to this market. Is there spruce in Oregon?

Mr. Curry. Yes, sir.

The CHAIRMAN. Large spruce? Mr. Curry. Yes; very large.

The CHAIRMAN. Useful mostly for saw logs?

Mr. Curry. Yes; I have seen some as large cut over at the Soc. They get some very large spruce in there, 2 or 3 feet through.

The Chairman. Do you know how far the spruce forests run to

the north, or are you familiar with the Canadian forests?

Mr. Curry. I have not been to Canada. I have been up to the

line along the Rainy River. There is spruce clear to the line. The CHAIRMAN. We have just been over that territory. Do you

handle spruce in Lake County?

Mr. Curry. Yes, sir. The Chairman. Do you send any from Two Harbors?

Mr. Curry. No; we handle ours on to the railroad that runs in north and west of Two Harbors.

The CHAIRMAN. Would it be practicable to take across Lake Su-

perior spruce from the north shore by water?

Mr. Curry. They do it; yes. They took spruce this year from there.

The CHAIRMAN. That is, by boat or raft?

Mr. Curry. They rafted some across, the Schroeder Lumber Company, of Ashland. I think the docks are at Milwaukee. They have mills at Ashland.

The CHAIRMAN. What is the character of ground up in Lake

County mostly, low or high and rocky ground?

Mr. Curry. There is considerable of rock and a good deal of swamp.

The Chairman. Is that an iron-mining territory?

Mr. Curry. No; no iron mines in there yet.

The Chairman. Is there supposed to be iron ore there or not?

Mr. Curry. They have never found any, I guess.

The CHAIRMAN. All along the north shore of Lake Superior is there iron?

Mr. Curry. I do not think anybody has found any yet.

The CHAIRMAN. Is it a rough country?

Mr. Curry. Yes; near the lake. Ten or 15 miles back it is not so bad.

The Chairman. Are there any rivers flowing into Lake Superior up there?

Mr. Curry. Yes, sir.

The CHAIRMAN. Would it be practicable to bring down from that

shore pulp wood or saw logs to Lake Superior?

Mr. Curry. They have brought some, but the rivers are very steep running in there and very rough. The railroad is the proper way to get that out of there.

The CHAIRMAN. Is there any water power up there?

Mr. Curry. Yes; there will be if developed. The Chairman. Where?

Mr. Curry. Cross River has very nice power.

The CHAIRMAN. Where is Cross River !

Mr. Curry. It is about 60 miles from here.

The CHAIRMAN. Do you know where Gooseberry River is up there? Mr. Curry. Yes, sir.

The CHAIRMAN. Where is that?

Mr. Curry. That is about 35 miles from here, 20 miles from Two Harbors.

The CHAIRMAN. How far is it from Two Harbors?

Mr. Curry. Two Harbors is 20 miles.

The CHAIRMAN. Do you know of any pulp wood being shipped out of Port Arthur?

Mr. Curry. No. There is considerable shipped from Two Harbors.

though.

The CHAIRMAN. Have you any judgment as to the number of cords of pulp wood this county would average?

Mr. Curry. Taking all the land uncut, I suppose you mean?

The CHAIRMAN. All the land uncut and cut.

Mr. Curry. No.

The CHAIRMAN. Have you any as to the land that is uncut?

Mr. Curry. No; I would not have. We have estimated quite a lot of it. Some of it doesn't run very much and some of it runs, as I say, up to 10 or 12 cords to the acre.

The CHAIRMAN. Have you furnished any information to the Bu-

reau of Corporations in their investigations?

Mr. Curry. I think there was an inquiry at the office, but I do not pay any attention to that part of it. My part is the woods parts of the business. I think Mr. Whyte made some kind of a timber report to the State people here a short time ago.

The CHAIRMAN. That is the General Land Department?

Mr. Curry. I don't know what it is for. It might have been to Washington for all I know. That was only on the land that we owned.

The CHAIRMAN. Are you buying any pulp wood now?

Mr. Curry. Cut, do you mean, or stumpage?

The CHAIRMAN. Cut.

Mr. Curry. No, sir; we are not.

The CHAIRMAN. Are you disposing of any, shipping any?

Mr. Curry. We haven't any contracts for this year. We filled our contracts for last year, got done shipping a month or so ago.

The CHAIRMAN. What did you get last year for pulp wood?

Mr. Curry. We got on an average about \$6, about \$7.25 in Duluth. That would be about \$6 for the wood.

The CHAIRMAN. About \$6 at the station on the railroad?

Mr. CURRY. On the cars; ves.

The CHAIRMAN. That is a little higher than I supposed it was. It is not likely to be as high next winter, is it?

Mr. Curry. That is the highest we have ever gotten for it.

Mr. Ryan. Have you some on hand now?

Mr. Curry. No.

The CHAIRMAN. Do you remember when the Wisconsin Mills a year ago last March or February purchased a lot of pulp wood in Quebec ?

Mr. Curry. I heard some talk of it, but I was not familiar with it.

The CHAIRMAN. Was there a shortage of pulp wood then?

Mr. Curry. The pulp mills did not come here to buy until quite late, and then a heavy snow storm came in November, I think, along about the 17th, which really put the pulp-wood cutters out of business. They could not get through the snow to cut it. There was from 4 to 5 feet of snow through Lake County and the northern part of the State.

The CHAIRMAN. How long did that stay on the ground?

Mr. Curry. Until the next April or May.

The CHAIRMAN. It was the heavy fall of snow that prevented?

Mr. Curry. Yes, sir.

The CHAIRMAN. I got the impression it was the lack of snow.

Mr. Curry. No, it was a year ago last winter. There was a very We had to shovel for every stick that we got after heavy snow here. the middle of November.

Mr. Ryan. The snow came before the ground froze up?

Mr. Curry. Yes, sir.

The CHAIRMAN. That is, you had to shovel to get down low enough to get the horses through?

Mr. Curry. To get the horses through.

The CHAIRMAN. Where you want to cut wood where there is 4 or

5 feet of snow would you cut it higher up from the ground?

Mr. Curry. You would have to if you would cut it at all. That is the reason there was a shortage. People couldn't get it.

The CHAIRMAN. There was no pulp wood cut that winter, then?

Mr. Curry. No.

The CHAIRMAN. Is there a considerable supply of pulp wood

already cut up in this country now?

Mr. Curry. I think there is not so very much cut. There is some. I think Mr. Martin has as much as anybody, who was here before me. There is not such a great amount cut now.

The CHAIRMAN. The mills are all stocked up pretty well with

pulp wood?

Mr. Curry. Yes, sir.

The CHAIRMAN. Is there likely to be a great quantity of pulp wood cut this winter?

Mr. Curry. No; I do not think that there will be, for the reason that they have not come out to make any contracts yet, and it is getting so late that people won't put in camps after snow comes, to cut pulp wood.

The CHAIRMAN. The settlers will still probably cut wood on their

own account?

Mr. Curry. They will take it out a little.

The CHAIRMAN. What is cord wood worth up here?

Mr. Curry. I think \$6 a cord.

The CHAIRMAN. Delivered where?

Mr. Curry. At Duluth.

The CHAIRMAN. Delivered at the station in Duluth?

Mr. Curry. I think so. That is hard wood.

The Chairman. Isn't there a large amount of cord wood burned here?

Mr. Curry. Yes; a very large amount.
The Chairman. What does it cost delivered at the house? Mr. Curry. Seven dollars, I think. I have never bought any.

'The CHAIRMAN. What kind of wood is that?

Mr. CURRY. Birch or maple.

The CHAIRMAN. Is there much maple up here?

Mr. Curry. But very little.

The CHAIRMAN. What kind of maple?

Mr. Curry. Soft maple.

The Chairman. Soft maple or sugar maple?

Mr. Curry. It is sugar maple all right, but it doesn't grow as it does east or in Canada. It doesn't grow so large.

The CHAIRMAN. Does it grow in dense forests?

Mr. Curry. No; just a ridge here and there. There is a little up in Lake County, very nice sugar bush.

The CHAIRMAN. How much poplar is there up here?

Mr. Curry. There isn't so very much poplar until you get over where the water runs toward Canada. You strike a lot there.

The CHAIRMAN. How far over is that from here?

Mr. Curry. That would be about Tower, 15 miles north of Tower, I should sav.

The CHAIRMAN. How near does the Rainy River basin come to Lake Superior; do you remember?

Mr. CURRY. I do not.

The CHAIRMAN. There is a very narrow fringe that drains into Lake Superior, I take it, until you get into the Nippigon country. Mr. Curry. Yes.

The CHAIRMAN. How large does the poplar grow here?

Mr. Curry. Not very large.
The Chairman. What is it used for?

Mr. Curry. They are sawing it now into lumber-what they get

The CHAIRMAN. What would be the proportion, in your opinion,

as to poplar and spruce in your forests?

Mr. Curry. There is not so very much poplar. They do not get out very much. I have been up through the Rainy River country and I know after I got over the height of land going the other way that there was small poplar-second-growth poplar-mixed in with it. They used to cut it in Wisconsin years ago for pulp wood. They do not buy any from us here now. They took some balsam last year.

The CHAIRMAN. Is there much balsam here? Mr. Curry. There is a large growth of balsam. The CHAIRMAN. More than there is of spruce?

Mr. Curry. Yes, ever so much more. The Chairman. What is the prevailing tree in the forests here?

Mr. Curry. You would mean in thousand feet?

The CHAIRMAN. Either way.

Mr. Curry. I presume there is more pine than anything else.

The CHAIRMAN. White or Norway?

Mr. Curry. Together.

The CHAIRMAN. What would come next, in your opinion? Mr. Curry. I believe spruce would come next, and tamarack.

The CHAIRMAN. I thought you said more balsam than spruce.

Mr. Curry. In thousand feet. Logging timber I am speaking of now.

The CHAIRMAN. After spruce would come tamarack?

Mr. Curry. Yes, sir. If you are getting that into cords for pulp wood, I believe there would be more balsam than spruce or tamarack.

The CHAIRMAN. Do they use tamarack for saw logs?

Mr. Curry. Yes, sir.

The CHAIRMAN. Including the timber for all purposes, which do you think would be the prevailing timber next to pine or including pine?

Mr. Curry. I think spruce would be the prevailing timber, probably because the balsam does not grow large enough to make lum-

ber of.

The CHAIRMAN. How large does the balsam grow?

Mr. Curry. From 4 to 5 or 6 inches. After a balsam gets to be any size it rots at the butt. You can not get a large balsam that is sound at the ground. As soon as it gets about 8 or 9 inches through, it rots at the ground.

The CHAIRMAN. If balsam could be used for pulp-wood purposes by itself that would add very largely to the supply of pulp wood here?

Mr. Curry. Yes, sir.

The CHAIRMAN. I think they could use about 10 per cent now with-

out any great difficulty.

Mr. CURRY. One contractor told me that he was allowed to ship 20 per cent last year. That was a man up at Bassett. He was shipping to an Eau Claire mill, I think.

The CHAIRMAN. That mill is a mill we have not seen.

Mr. Curry. There is a mill at Eau Claire.

## STATEMENT OF THOMAS H. MARTIN, OF DULUTH, MINN.

(Sworn and examined by the chairman.)

The CHAIRMAN. What is your name?

Mr. MARTIN. Thomas H. Martin.

The CHAIRMAN. Connected with what company?

Mr. Martin. Martin Brothers. The Chairman. At Duluth?

Mr. MARTIN. Yes. sir.

The CHAIRMAN. What business are they engaged in? Mr. MARTIN. In the tie, pulp wood, posts, and logs.

The CHAIRMAN. Do you get out many saw logs?

Mr. Martin. Yes.

The CHAIRMAN. What character of land do you cut over?

Mr. Martin. Largely swamp land.

The CHAIRMAN. Land where you buy the stumpage?

Mr. Martin. Yes, from contractors. About 50 per cent is stumpage we buy.

The CHAIRMAN. You contract and cut more or less of it?

Mr. MARTIN. We have contractors take it out for us. We buy the timber and have them take it out.

The CHAIRMAN. You said about 50 per cent. Where do you get the other 50 per cent.

Mr. MARTIN. Buy it from the settlers.

The CHAIRMAN. You do not actually cut any yourself?

Mr. MARTIN. No, sir.

The CHAIRMAN. You are familiar with the forests, however, I should judge?

Mr. MARTIN. No, sir; not in particular. I have never been out in them at all. We have men for that work, cruisers.

The CHAIRMAN. You buy from the estimates given by your

**cr**uisers?

Mr. Martin. Yes, sir.

The CHAIRMAN. Nearly all the companies do that, don't they?

Mr. MARTIN. I don't know; I think the most of them.

The CHAIRMAN. In the end they rely on the judgment of the cruiser as to the amount of forest?

Mr. MARTIN. Yes, sir.

The CHAIRMAN. How much pulp wood do you handle in the course of a year?

Mr. Martin. We handled 43,000 cords last year.

The CHAIRMAN. Who did that go to?

Mr. Martin. Pulp wood company, Appleton, Wis. A little over 15,000 over the contract. We sent the pulp wood to them and they paid the freight on it subject to this year's market.

The CHAIRMAN. You have sent down about 15,000 cords more than

your contract called for?

Mr. Martin. Yes, sir.

The CHAIRMAN. Is a large portion of your business the getting out of pulp wood?

Mr. MARTIN. And ties.

The CHAIRMAN. What do you cut ties from? Mr. MARTIN. Cedar and tamarack and pine.

The CHAIRMAN. What kind of pine do you use for ties?

Mr. Martin. White pine.

The CHAIRMAN. Do they cut white pine into ties?

Mr. Martin. Where it is mixed in—sometimes a small tree mixed with cedar—we make ties of it.

The CHAIRMAN. I thought they treated white pine like diamonds; when they found a piece they locked it up in a safe.

Mr. Martin. We made quite a number of ties out of pine last year.

Pine is usually too large, but where it is small we use it for ties.

The CHAIRMAN. You do not get out many poles?

Mr. Martin. Not many last year.

The CHAIRMAN. Does most of the pulp wood that goes to Wisconsin come from you gentlemen that have been here?

Mr. MARTIN. I think so. The Cloquet people send a little wood

The CHAIRMAN. In Wisconsin the two pulp-wood companies there that supply the mills, Mr. Taylor and Mr. Ballou, seemed to be under the impression that most of their pulp wood came in connection with the cutting of poles.

Mr. MARTIN. Largely in ties, I think. There were very few poles

manufactured here last year, none hardly.

The Chairman. This forest that you go over is the prevalent timber—cedar spruce or tamarack?

ber cedar or spruce or tamarack?
Mr. Marrin. Tamarack and spruce.

The CHAIRMAN. You are aiming to cut ties from tamarack and cedar?

Mr. Martin. Yes, sir.

The CHAIRMAN. What proportion of it would be cedar?

Mr. MARTIN. I should judge a third of the timber would be cedar.

The CHAIRMAN. What proportion would be tamarack?

Mr. Martin. About half is tamarack. The other half would be divided between cedar and spruce.

The CHAIRMAN. You use the tamarack and cedar for ties mainly?

Mr. Martin. Yes.

The CHAIRMAN. Do you cut any posts? Mr. MARTIN. Yes; but that is incidental.

The CHAIRMAN. You do not cut many poles?

Mr. MARTIN. None at all.

The CHAIRMAN. If you get a tree that is suitable for a pole you usually cut it into ties?

Mr. Martin. Yes, sir.

The CHAIRMAN. If there is any left, you make posts?

Mr. Martin. Yes.

The CHAIRMAN. Do you take the forest clean?

Mr. Martin. Yes.

The CHAIRMAN. And the spruce you cut into pulp wood?

Mr. Martin. Yes; there is some spruce we put into saw logs when they are very large.

The CHAIRMAN. Of course, in going through the forest you find

some pine and other stuff that you cut into saw logs?

Mr. MARTIN. Yes, sir; generally.

The CHAIRMAN. What other tree is there that grows large besides the spruce and pine and tamarack and cedar?

Mr. Martin. There is large birch here and basswood.

The CHAIRMAN. How large does the birch grow here?

Mr. Martin. Some of it grows 8 and 10 inches.

The CHAIRMAN. Nothing over probably about a foot in the way

Mr. Martin. I have never seen any.

The CHAIRMAN. Does the basswood grow large!

Mr. Martin. Yes, sir.

The CHAIRMAN. Is that a long-lived tree up here?

Mr. Martin. The most of it we have cut has been good. We cut

considerable last year in the neighborhood of Deer River.

The Chairman. What do you do with the balsam when you cut

over the forest?

Mr. Martin. We have never cut any balsam. I presume there has been a little put in with the spruce, but not much.

The CHAIRMAN. Do you find any balsam where you cut over?

Mr. MARTIN. I don't know.

The CHAIRMAN. You do not handle it unless a little gets mixed in with the spruce?

Mr. Martin. No; there is no contract with balsam at all.

The Chairman. Do your contracts allow you to put any balsam in the pulp wood?

Mr. Martin. No, sir. The Chairman. What do you do with the poplar?

Mr. Martin. Very little in our cutting. We do not cut it at all.

The CHAIRMAN. How small down do you cut birch?

Mr. MARTIN. We do not handle birch; sometimes make saw logs of it; probably 10 inches. We do not handle it in cord wood at all.

The CHAIRMAN. Have you any judgment as to the quantity of forest left here?

Mr. Martin. Only just hearsay, such as the other witnesses have

The CHAIRMAN. Are you acquainted with any firms here that deal in Canadian timber?

Mr. MARTIN. I do not know of any.

The CHAIRMAN. Where do you get your wood mostly?

Mr. MARTIN. St. Louis County.
The CHAIRMAN. What portion of it?

Mr. Martin. The northern portion along the railroad.

The CHAIRMAN. North from here?

Mr. Martin. On the Missaba Northern and on the Iron Range.

## STATEMENT OF LUTHER B. ARNOLD, OF DULUTH.

(Sworn and examined by the chairman.)

The CHAIRMAN. Give us your full name.

Mr. Arnold. Luther B. Arnold.

The CHAIRMAN. What is your business?

Mr. Arnold. Assistant land commissioner of the Duluth and Iron Range Railroad Company.

The CHAIRMAN. How much land does the Duluth and Iron Range

Railroad Company own?

Mr. Arnold. The original land grant was 606,000 acres—a few acres over that, possibly.

The CHAIRMAN. Located where?

Mr. Arnold. Lake, Cook, and St. Louis counties, the three northeastern counties. It now has probably a little over 500,000 ocres. The CHAIRMAN. What is the character of that land generally?

Mr. Arnold. The character of the land varies as much as the character of the counties, for it is scattered all through the three counties. We probably have in St. Louis County 100,000 acres of land that might be considered at the present time as suitable for agricultural purposes after the timber has been removed.

The CHAIRMAN. That would be out of how much in St. Louis

County?

Mr. Arnold. I could not say exactly. Our grant is in St. Louis County, and the larger portion of our land is located in St. Louis County.

The CHAIRMAN. What percentage of the total amount in St. Louis County do you think belonging to your company would be suitable

for agricultural purposes?

Mr. Arnold. I can not state exactly what our acreage is here, and without that I could not say. I will say that there is 100,000 acres at present that is suitable probably for agricultural purposes without any large systematic drainage work.

The CHAIRMAN. What percentage of the land in St. Louis County, regardless of the ownership, do you think would be suitable for

agricultural purposes?

Mr. Arnold. I should say approximately 70 per cent.

The CHAIRMAN. Then you have a lot of land that is now too low, I take it, as it stands?

Mr. Arnold. We have a lot of land that is too low. In fact, to fill our land grant we selected the bulk of the area of some of the largest swamps in the southwestern part of the county with a view of working out some plan for adapting that land to agricultural purposes.

The CHAIRMAN. That is naturally rather rich soil there, is it not? Mr. Arnold It is a peaty substance—decomposed vegetable

matter.

The CHAIRMAN. Is that what they call muskeg land?

Mr. Arnold. Well, the term muskeg is applied by different people to different classes of land, so that it would cover everything. some cases this swamp has reached a stage of decomposition where with a little working up of the top and the use of some fertilizer to supply chemical deficiencies it will make excellent agricultural land at once, with sufficient drainage to carry off the surface water, and in other cases the swamp has not reached that stage of decomposition. You can find places where ditches have been dug along railroads in this county where you find different strata of moss still in a pretty good state of preservation. I have seen growths of moss, stumps, and roots, one on top of the other, showing where it has been fire killed and new growth come in, and probably in a space of 4 or 5 feet you will find these three different strata.

The CHAIRMAN. Four or 5 feet in depth?

Mr. Arnold. Yes; you will find these three different strata and very little decomposition until you get down to the bottom.

The CHAIRMAN. Have you ever estimated as to how long it was

between those fires?

Mr. Arnold. I never have.

The CHAIRMAN. A considerable period of time, probably; but still that would indicate that fires had swept over that country?

Mr. Arnold. Yes, sir.

The CHAIRMAN. Killing off the timber growth, if there was any. as well as the moss?

Mr. Arnold. There was a tremendous fire that swept over this country a good many years ago, between seventy-five and one hundred years ago, that is known as the hundred-mile fire. Some Indian tradition of Sioux coming in here and getting even with their friends, the Chippewas, and driving them north. You can see marks of that fire clear through to the Canadian boundary, the cruisers tell us.

The CHAIRMAN. We heard of that fire up in Koochiching County, but we found trees right on top of it that were over a hundred years

old.

Mr. Arnold. Yes, sir.
The Chairman. I suppose Indian traditions are not likely to be very reliable as to dates?

Mr. Arnold. No.

The CHAIRMAN. Are there any schemes on foot here for the drain-

age of this territory?

Mr. Arnold. The State has been carrying on drainage for about twelve or fifteen years, and has at last reached this portion of the country. Last year it constructed some small drainage ditches in the southwestern part of St. Louis County in township 52, range 21, in a large swamp known as the Wawina swamp, extending from the tributaries of the St. Louis River system to the tributaries of the Mississippi.

The CHAIRMAN. That it is across the divide?

Mr. Arnold. It is the top of the divide.

The CHAIRMAN. Is that a great swamp?

Mr. Arnold. It is a large swamp.

The CHAIRMAN. It flows both ways?

Mr. Arnold. Drains both ways. Little runs extend up into it from both systems, the St. Louis system going into the lake and the Mississippi into the Gulf of Mexico. This year the State has let contracts for three ditching systems and known as the State ditches 53, 54, and 55, one of them being in this Wawina swamp and being an addition to and continuation of the work begun a year ago. Another one being built is what is called the meadow land district between township 54, ranges 18 and 19, another being built draining into the White Face River in townships 54 and 55, range 17. These ditches will extend in all with their laterals, about 40 miles. The contracts were let with a provision that the waste material, stumps, etc., should be thrown on one side of the ditch and the material suitable for highway building should be piled in a waste pile on the other side of the ditch and leveled off in such a way as to make a public highway. St. Louis County appropriated a sufficient amount to clear the right of way of stumps and timber for this highway work.

Mr. RYAN. Do you recollect how large an appropriation that was? Mr. Arnold. The approximate cost of the three ditches was

**\$1**5.000.

The CHAIRMAN. Was any of the cost of that assessed against the land?

Mr. Arnold. I think it is all assessed against the land.

The CHAIRMAN. The State does not pay it out of its general

treasury?

Mr. Arnold. No. The State fathers the work, makes the surveys, carries on the legal work, and it is paid for, I think, by bonds issued by the county—I am not exactly clear on that law—and assessed back against the land.

The CHAIRMAN. In most of the States they have what are organized as drainage districts which levy special assessments against the property, payable in installments and against which they issue bonds.

Mr. Arnold. They have several methods of building ditches. These ditches are what are called State ditches and are built out of the State fund, the fund being simply advanced for the building of the ditch, and, I think, covered by bonds and assessed against the land and paid back in a period of twenty years, the first assessment being payable five years after the completion of the ditch.

The CHAIRMAN. You would know whether your land had been

assessed for these ditches, wouldn't you?

Mr. Arnold. We have agreed to the assessments, we have participated in them, and I know it is assessed. What I am getting at is simply the method of making the first payment. I think bonds are issued by the county and retired by these assessments later.

The CHAIRMAN. That delays the first payment on the theory that the land itself will be able to produce the money with which to pay it?

Mr. Arnold. Yes, sir. This must be carried a period of five years after the completion of the ditches before any assessment or any money is returned to the fund.

The CHAIRMAN. Do you know how large these ditches are?

Mr. Arnold. The main ditches are 12 feet at the bottom and approximately 8 feet deep.

The CHAIRMAN. What is the bottom, clay?

Mr. Arnold. Whatever the depth finds. Not always clay. Sometimes still in the muck.

The CHAIRMAN. How deep does the muck usually run?

Mr. Arnold. From 3 to 5 feet generally. We have sounded, I think, 23 feet before reaching subsoil in some places in some large swamps.

The CHAIRMAN. You will have to have that pretty dry for a big

team of Norman horses to haul a load over it, won't you?

Mr. Arnold. Yes.

The CHAIRMAN. You figure that this land when drained will be fit for agricultural purposes?

Mr. Arnold. We believe that it will.

The CHAIRMAN. With the aid of chemicals probably that the peat is deficient in?

Mr. Arnold. Yes.

The Chairman. Principally used, I take it, for the present for

raising vegetables?

Mr. Arnold. These lands at first will probably be put into hay, red top, perhaps white clover, and worked into timothy and red clover later, as it becomes drier.

The CHAIRMAN. We saw timothy growing where the roads had been made up at International Falls as luxuriously as you can find it

almost any place.

Mr. Arnold. You will find it impossible in the summer to travel along any old logging road in this part of the country and not find it lined with timothy hay, and in some cases with clover. from the seed dropped from baled hay that has been hauled along there. This is as good a clover country as timothy, but timothy has been the class of hay that has been brought into the camps principally.

The CHAIRMAN. When you have this sowed down with pasture or

hay grass, what do you think you will stock the farms with?

Mr. Arnold. This is strictly a dairy country. Of course, the hay crop is one of the most valuable crops that can be raised in this country at the present time. I have sold timothy hay on my farm 40 miles northwest of here in the last month at \$14 a ton in the stack, the man to do his own hauling.

The CHAIRMAN. That is for use in the lumber camps mainly. We have been paying a cent a pound for timothy hay in Chicago for the

last year.

Mr. Arnold. The timothy hay this winter will probably sell at \$25 a ton in Hibbing and in the range towns. This hay that I sold at \$14 a ton was sold as an accommodation.

The CHAIRMAN. When this land is drained off in this way, you think about 70 per cent of it may be used for agricultural purposes?

Mr. Arnold. In this county.

The CHAIRMAN. Is the upland fit for agricultural purposes?

Mr. Arnold. A great deal of the upland is very fine sandy loam that raises splendid potatoes and root crops, and I have seen in some of the finished settlements as fine grain as I have ever seen anywhere on the Dakota prairies, but in small patches.

The CHAIRMAN. What kind of grain?

Mr. Arnold. Winter rye, wheat, oats, and barley.

The CHAIRMAN. When you said that you had about 100,000 acres in this county fit for agricultural purposes, did you include the land that would be affected by this drainage?

Mr. Arnold. I mean the land that can be used before these drain-

age systems are built. That is scattered land.

The CHAIRMAN. Is practically all of your land fit for agricultural purposes if it can be drained, in your opinion?

Mr. Arnold. I think that pretty close to 50 per cent of our land

in this county will not be agricultural land.

The CHAIRMAN. What character of land is that?

Mr. Arnold. It is land that has been timbered with spruce, tamarack and similar classes of timber and is very stony, very rocky.

The CHAIRMAN. Did you get that under the swamp-land act?

Mr. Arnold. You will find in some parts of the county spruce and tamarack swamps in which the only soil to be found is moss, and that may be several feet deep, and the timber based on beds of rock that I do not believe you could lead a horse over without breaking its legs, and could hardly travel over yourself after the moss is off. When that timber is taken off it leaves the ground bare and the moss dries in the dry season, and if a fire gets in there it will burn large tracts of country that are simply masses of bowlders.

The CHAIRMAN. That land is valuable, if valuable at all, mainly

for the reproduction of timber?

Mr. Arnold. I think so.

The CHAIRMAN. What character of timber is on it now? Has it

been cut over?

Mr. Arnold. There is much land that has been cut over and much that has not. Land that has been cut over we have made no close examination of as to the bottom of the soil. I presume there is very much land that is bedded with rocks and bowlders in that way.

The CHAIRMAN. Have you a good deal of spruce forest?

Mr. Arnold. We have a great deal of spruce.

The CHAIRMAN. Tamarack and balsam?

Mr. Arnold. Considerable tamarack. I do not know about the balsam. We do not pay much attention to that.

The CHAIRMAN. Do you know about how spruce forests run, gen-

erally, in this county, what proportion of the forest is spruce?

Mr. Arnold. I think in our lands, that as we consider or designate spruce, it is largely in bodies, principally of spruce timber swamps, of sometimes several thousand acres in extent, very heavily timbered with spruce. Generally I think the top soil or muck in which that spruce grows is not very deep, probably not more than 18 inches to 3 feet.

The CHAIRMAN. Then it would come down to what, rock or clay? Mr. Arnold. The bottom might be rock or it might be clay subsoil.

That rock is bedded on clay.

The CHARMAN. In the pure muskeg, is that where the peat is the

deepest?

Mr. Arnold. Yes; I think so from my experience, and that is usually not timbered or timbered very sparsely.

The CHAIRMAN. Or timbered with very low stuff, you mean?

Mr. Arnold. Well, yes; sometimes it is open land covered with moss on top.

The CHAIRMAN. We have seen a good deal of muskeg where the trees would appear to be very old and very small, and very often covered with green moss.

Mr. Arnold. Yes.

The CHAIRMAN. Do you have a good deal of land in connection with the iron mines?

Mr. Arnold. In what way?

The CHAIRMAN. Does the railroad company own a good deal of land where the iron mines are?

Mr. Arnold. Very little on the range. I may say, to begin with, that is a higher formation and there is comparatively little swamp land immediately on the Mesaba range.

The CHAIRMAN. Who owns the land up there?

Mr. Arnold. The land was principally pine land, high ridges and hills, and was owned by lumbering companies and private individuals. The late Governor John S. Pillsbury owned a great deal of fine pine land through that district which furnished a large revenue, and is supposed to be worthless after that, and then developed iron mines that were beyond all expectations of the lumbermen.

The CHAIRMAN. Has the forest been mainly cut off that Iron Mine

range ?

Mr. Arnold. Yes, mainly.

The CHAIRMAN. What is there there now?

Mr. Arnold. Stumps and rocks.

The CHAIRMAN. Any second growth?

Mr. Arnold. Very little, for I think much of that territory has been burned over where there was any prospect of iron mines, in the exploration work.

The CHAIRMAN. Is that land worth anything—the surface of it—

except for the growth of trees?

Mr. Arnold. There are some excellent truck farms and dairy farms in the neighborhood of the mining towns on that character of land. I had the dean of the agricultural college, Mr. A. W. Randall, and Prof. T. L. Hicker, a dairyman who stands at the top in the United States, and Prof. Harry Snyder, a consulting agriculturist, up there in August, and they were surprised at the farms that were developed in a small way close to the towns.

The CHAIRMAN. Was it their opinion, and is it yours, that that

land may be made available for farming purposes?

Mr. Arnold. Most certainly so. The work already done has proven that.

The CHAIRMAN. It would be more profitable then to farm it than it would be to raise forest on it?

Mr. Arnold. I think it would, that character of land, yes.

The CHAIRMAN. That would be the land up in the Iron Range that

is high land, of course?

Mr. Arnold. Yes. Now I must modify that statement. There is considerable land scattered along the range that is perhaps very stony and that would not be practicable to use for agricultural purposes on account of the rocks.

The CHAIRMAN. I mean, take the range itself, the general land up there now, would it be more profitable to use that portion that can be used for agricultural purposes for farming or endeavor to conserve

the forest over the entire area.

Mr. Arnold. To use it for farming, by all means.

The CHAIRMAN. It is practically impossible, I suppose, to put a farm on this forty and that eighty and the next hundred and sixty, and so forth, and to have forest grown in around between because

it is sure to get burned?

Mr. Arnold. I can point to you one instance of a farmer who has 160 acres which was supposed to be mineral land, was taken for that, homesteaded, I think, and this man's claim was contested. He was a butcher by trade in one of the mining towns, and before he perfected his title and won his contest he lost his butcher business and was \$3,000 in debt. He had nothing left but his claim. He had a little by-product timber on it—that is to say, spruce and tamarack and cedar and some hard-wood timber. He went out to his farm and built a little log shack, probably 10 by 20 feet, took his wife and went to work clearing his land, selling a little by-product timber in the town during the winter and getting out a few ties and clearing his land in the summer. I think that was nine years ago. he has paid off his \$3,000 debt, he has put up a house this summer that must have cost \$2,000, he has as nice a barn as you would expect to see in the eastern States and considers his farm worth \$10,000 as an agricultural proposition, and I think has considerable money in the bank. I think that pays.

The CHAIRMAN. We would be very glad to disseminate that advertisement, because if you can show that all over the country you

will soon fill up this region up here. Where is that?

Mr. Arnold. It is 4 miles from some of our biggest mines on the range. That man has been offered \$125 a month to go back to work as a butcher. He says he can not afford to. When you consider that in 1906 there was shipped into Duluth for consumption in Duluth and distribution in the range towns tributary to Duluth, in St. Louis County, over 10,000 loads of farm product which might have been raised right around in this country, and that does not include the hay part of it and stuff that is used in the lumber camps for horses, I think we have got an opportunity for a good many farmers, and we have got the land that both by practical demonstration and use and by analysis of our chemists at the university we know will produce the stuff.

The CHAIRMAN. You have the largest iron ore mines in the world, of course?

Mr. Arnold. Yes.

The CHAIRMAN. What is the population probably that is engaged

in that business and tributary to that business?

Mr. Arnold. I can not give anything better than a rough guess on that, but you can get statistics. I would venture to say that in the average year—the forces are reduced very much at the present time and have been all summer—I should say in the average year we must have close to a thousand people on the Mesaba and Vermilion ranges.

The CHAIRMAN. That is, you mean the entire population?

Mr. Arnold. The population is there simply on account of the mines.

The CHAIRMAN. You do not mean the number of men working, but the entire population?

Mr. Arnold. The entire population would be more than that. Men engaged in mining, storekeepers, and all classes of men that are there for the support of the mining element and the miners.

The CHAIRMAN. Do you include the families?

Mr. Arnold. I do not think I will have to include the families.

The CHAIRMAN. Of course that means a very large consumption of the ordinary products necessary to sustain and carry on living. In that view of the case, do you think this land around here is likely to be cleared as rapidly as practicable of the forest and used for agricultural purposes?

Mr. Arnold. The settlement and clearing of agricultural lands in the country tributary to the head of the lakes, including Wisconsin, is growing more rapidly now than it ever has, to the best of my

knowledge, in any timbered district in North America.

The CHAIRMAN. Then the forest is destined to disappear from this

part of the country?

Mr. Arnold. I would not say that, because there is a large quantity of land that is, I believe, destined to be used for forest purposes, and I think that those people who are now setting and clearing land will for many years maintain a part of their land in timber.

The CHAIRMAN. You say a large part of the land is destined to be used for forestry purposes. Do you mean the land which prac-

tically has no soil or subsoil, or is that rocky bottom?

Mr. Arnold. Yes; and in some cases it is a soil that is too light for agricultural purposes.

The CHAIRMAN. Too light or too rocky, or both?

Mr. Arnold. Too rocky and too low.

The CHAIRMAN. That, of course, can only be used for forestry purposes with proper protection and every care?

Mr. Arnold. That land is reforesting itself if it has the protection

from fires.

The CHAIRMAN. Yes; but it has not the protection from fires. Assuming that it takes a forest thirty to a hundred years to become valuable, is there any land here without better protection than now is given with settlers all around it that will be free from fire for twenty-five years in all probability?

Mr. Arnold. Not without better protection than it is receiving at present. But the State fire warden is doing the best he can with the

funds at his command at the present time.

The CHAIRMAN. He posts notices everywhere, doesn't he?

Mr. Arnold. He posts up notices everywhere, and he is very vigilant. When you consider the people that go into the woods and throw everything everywhere in the dry season——

The CHAIRMAN. And the number of railroads which are constantly

increasing in mileage.

Mr. Arnold. Yes; they are increasing in mileage, but I think you will find that in this county, at least, the right of ways of the railroads are kept as clean as you see them anywhere in the United States and very little fire gets away from at least the ore roads.

Mr. RYAN. That is not true, generally speaking, of railroads,

though.

Mr. Arnold. It is not true, generally speaking, but in St. Louis county the railroads have been very careful about that.

Mr. Ryan. Some one has suggested that the railroads along their right of way clear back a certain portion off from the right of way and plant that to garden truck and things of that kind all the way

along as a protection from forest fires.

Mr. Arnold. The two ore roads here have to a large extent protected their right of ways. They have distributed at times clover seed, and it is coming in a little, but slowly, and you will find that they mow the grass and they clean up their right of ways and clean the rubbish up, and their right of ways are kept very clean indeed. Of course, the fire will catch outside of the right of way in dry seasons. I do not know how careful the lumber companies are in that respect, but the bulk of fires catch from careless people in the woods.

The CHAIRMAN. I think two-thirds of the fires start from the rail-

roads.

Mr. Ryan. People tell us that it is the hunters, but I think as the

chairman does.

Mr. Arnold. As soon as the fire starts you will find on Mr. Mc-Gonigle's road or the Duluth and Iron Range road, the next train notifies the section foreman on the road there.

Mr. RYAN. We have never seen anybody out doing anything.

Mr. Arnold. Have you seen any fires along the road?

The CHAIRMAN. We saw some fires on the Missaba road, and nobody paying any attention to them, but on the whole very little fire along that road.

Mr. Arnold. You must realize that on every Sunday the trains are loaded with hunters, possibly smoking eigerettes and one thing and

another, and they build little fires.

The CHARMAN. It is very certain, I take it, if the forests are to be conserved in any way—reproduced—it is absolutely essential that there be furnished better fire protection than there has been, by either the National Government or the State government.

Mr. Arnold. I think so.

The CHARMAN. Where you have the country fairly well settled up. Mr. Arnold. I think if the State would furnish as much money for the protection of the forests from fire as it does for the protection of game, it would be a good thing, and there is no money in the game for the State.

The CHAIRMAN. How soon do you imagine the spruce forests will

largely disappear here? .

Mr. Annozo. I could not make any estimate whatever on that, but I will say this, that land that has been cut over by such people as the gentlemen who testified this morning has spruce on it enough left to support a settler and furnish him considerable funds. They cut their spruce through the contractors. The contractor pays his laborer or cutter by the cord. That man cuts only the stuff that is fit to cut and is going to furnish him a cord that can be cut quickly. If two or three trees are standing off in a little bunch he does not take those.

The Chairman. We have not seen any of that character of cutting

either in Wisconsin or Minnesota.

Mr. Arnold. I have sold to the settlers land that the original timber was sold from to Mr. Martin not over five years ago; I have sold it to the settlers afterwards and they have cut more off, and now they

are bringing their friends in and buying the land and settling on it, and still finding enough to furnish quite a little spruce.

The CHAIRMAN. Isn't that mainly because a few years ago pulp

wood was not considered of much value?

Mr. Arnold. Five years ago it was considered pretty good value. We got 75 cents a cord stumpage for that pulp wood that we sold at that time.

The CHAIRMAN. The demand for pulp wood up here has very greatly increased in the last few years. Before ten years ago—so the testimony shows here—they paid no attention to the pulp wood at all; it was not considered valuable.

Mr. Arnold. That is very true.

The CHAIRMAN. Of course, they left that on the ground.

Mr. Arnold. But I do not believe that the stand of pulp wood in the timber portions of Minnesota north of a line directly northwest from Duluth has much more than been scratched.

The CHAIRMAN. Do you base that judgment upon any facts or just

upon your general knowledge?

Mr. Arnold. On my general knowledge of the operations that have been carried on and the amount that has been shipped out and my knowledge of the various localities where there are bodies of spruce that I have considered the best bodies of spruce. I do not believe that the best bodies of spruce in this northern country have been reached yet.

The CHAIRMAN. You heard Mr. Martin testify that he thought there was enough spruce here to last for twenty-five years. Mr. Curry testified that there was enough to last for possibly forty years. How long do you think the spruce forests of Minnesota will last

at the present rate of consumption?

Mr. Arnold. I have not made any estimate. Iron ore has been estimated to last so many years, and the rate of consumption has increased so that they have been cutting that down. Then, again, their explorations show up so much more that they have to increase it. You will find the same thing with this timber. It is different from the iron ore, of course, from the fact that it is all on the surface; but this country has not been explored. The land in the northern part of these counties has been explored for pine and the pine estimated, but the spruce was considered worth nothing.

Mr. RYAN. Mr. Curry estimated the standing timber for pulp wood purposes in Minnesota here now to be about 40,000,000 cords.

Mr. Arnold. I think Mr. Curry is a good judge. He is the practical timber man of that firm.

The CHAIRMAN. Don't you think that estimate is unreasonably low as to the quantity of spruce wood up here?

Mr. Arnold. Forty million cords is a good deal of pulp wood. The Chairman. They based that upon the idea that it was forty years' consumption of whatever the average consumption was now.

Mr. Arnold. Yes.

The CHAIRMAN. About which he was not absolutely sure.

Mr. Arnold. I would say this, that in estimating spruce or any cord-wood timber I find that the cut will ordinarily overrun very considerably the estimate of a competent timber estimator.

The CHAIRMAN. How is the spruce forest up in Lake County,

pretty much the same as it is here?

Mr. Arnold. I think that there are some of the best bodies of spruce in this part of the country in Lake County.

The CHAIRMAN. Is there any mixed timber up in Lake County?

Mr. Arnold. What do you mean by mixed timber?

The CHAIRMAN. Any large wood, generally mixed pine and spruce and birch.

Mr. Arnold. I think generally on the upland, excepting the heaviest growth of pine timber you will find considerable birch. Along the rivers you will generally find more or less hard wood. Some basswood, some oak and soft maple.

The CHAIRMAN. Soft maple or hard maple?

Mr. Arnold. It is soft maple, I think.

The CHAIRMAN. If we should go up into Lake County, could we see a fair sample of the upland Minnesota forest?

Mr. Arnold. No, not of the hard-wood land, I think. The Chairman. What would we find up in Lake County?

Mr. Arnold. I think you will find that the timber is more of pine and spruce and that character of timber.

The CHAIRMAN. If we go up in Lake County, what kind of forests

will we see?

Mr. Arnold. If you go up in Lake County and I go with you, I am going to see it for the first time myself.

The CHAIRMAN. Is there anyone here familiar with the Canadian

forests that you know of?

Mr. Arnold. There should be some cruisers here.

The CHAIRMAN. Is there anyone here who operates up there, cutting lumber?

Mr. Arnold. No, I do not think there is.

The CHAIRMAN. Anyone here who owns any of that land up there

that you know of?

Mr. Arnold. I do not know of anyone in town. There is an operator up on the Duluth and Iron Range road, Mr. Laird, who told me that they had a large tract of timber on Hunters Island, which is north of St. Louis in Lake County in the maze of islands at the head of the Rainier and Pigeon rivers.

The CHAIRMAN. How close do the heads of the Ranier and Pigeon

rivers come together?

Mr. Arnold. I could not say. I know that there is a mingling of rocks and rivers in there. It is hard to tell where one ends and the other commences.

The CHAIRMAN. How far west does the Pigeon River start, do you

know?

Mr. Arnold. I could not tell you.

The CHAIRMAN. I was looking on the Minnesota map, and there seems to be a continuous body of lakes without a break on the map clear across to Lake Superior from Rainy Lake.

Mr. Arnold. Rainy River heads, at least to a certain extent, in Lake Vermilion, about three-quarters of the way north, in St. Louis County. Lake Vermilion waters run north to the Rainy River.

The CHAIRMAN. How large a lake is Lake Vermilion?

Mr. Arnold. It is 20 or 25 miles long. It has a great many islands and a very large shore frontage.

The CHARMAN. Do you know of any undeveloped water powers up

here?

Mr. Arnold. There is an undeveloped water power at Linden, at the outlet of Fall Lake. That is a few miles east of Ely, which is the head of the Duluth and Iron Range road, the most northeastern development of the Vermilion.

The CHAIRMAN. Is there a considerable fall there?

Mr. Arnold. I think there is quite a water power there. I know that one of the owners of the road has talked a great deal of developing it for the purpose of furnishing electricity to run the mines.

The CHAIRMAN. Has anyone up here adopted the methods of for-

est conservation vet?

Mr. Arnold. I don't think so. The State has set aside a forest reservation northeast of Lake Vermilion.

The CHAIRMAN. Is that the forest reservation that Congress created a few years ago?

Mr. Arnold. I judge not.

The CHAIRMAN. Do you know where that is?
Mr. Arnold. Wasn't that in some of the Indian reservations?

The CHAIRMAN. It may have been in connection possibly with the Leech Lake Indian Reservation, but part of it was outside of the Indian reservation, I think. I guess it was near Lake Winnebigoshish.

Mr. Arnold. I think so, or in the Cass Lake district.

The CHAIRMAN. How much of a forest reservation has the State

Mr. Arnold. My recollection is that they bought in the neighborhood of 20,000 acres in some four townships. It is more or less scat-

The CHAIRMAN. Some that they purchased? Mr. Arnold. Yes: I think so. Cut over lands.

The CHAIRMAN. Has your company considered the adoption of forest conservation and forest reproduction on any of its land?

Mr. Arnold. That is being considered. I think it will become a

necessity.

The CHAIRMAN. Do you think that if the State should arrange for adequate fire protection and for a proper system of taxation on growing timber the owners of much of this land might be induced to adopt the methods of forest reproduction?

Mr. Arnold. I think so. I think that one of the largest owners of timber land, by which I mean both the timber and the land, the

Weverhaeusers, would be very much interested in that.

The CHAIRMAN. What is land worth here?

Mr. Arnold. In what way?

The CHAIRMAN. The different characters of land for different

purposes?

Mr. Arnold. Land sells to the settlers at prices ranging from \$5 to \$15 an acre. At least those are the prices that we have been getting for our lands. In the case of \$15 an acre land we have built wagon roads from the railroad station to every settler in the settlement and have done a great deal of public work of that kind. In one locality, our meadow-land clearing, we have built approximately 40 miles of wagon road in the last four years.

The CHAIRMAN. What do you mean by building wagon roads.

clearing forests?

Mr. Arnold. Clearing the right of way, cutting the road, building culverts, and grading the road with a road grader. Where we cross a swamp that is so bad it has to be corduroyed—laying corduroy, digging ditches, covering it—we put the road in such condition that it will drain thoroughly and can be traveled over. Then we turn it over to the township government and let them take care of it.

The CHAIRMAN. Where you sell the land at \$5 an acre?

Mr. Arnold. That is land that is probably of not as good character, somewhat stony, and probably more or less of pine stumps, and takes more money to clear it. There is some little by-product timber on it that will furnish an income for the settler, but generally that character of land is sold to people who wish to start sheep farms, or something of that sort.

The CHAIRMAN. Is this land forested generally, or has the timber

been mostly cut off?

Mr. Arnold. The bulk of the timber, of the merchantable timber, has been generally cut. By merchantable timber I mean pine, spruce, tamarack, and cedar.

The CHAIRMAN. You mean saw-log timber?

Mr. Arnold. Saw log, tie, pole, and pulp-wood timber. That is where there has been pulp wood in large quantities. The reason we sell that timber to loggers and jobbers instead of to the settler is that in selling to the settler, unless we get a sufficient payment down on the land, all of our land being sold on time to protect us for the value of the timber, the chances are very great that the settler will cut a good deal of that timber, dispose of it, and disappear. But in selling to the jobber we are sometimes able to sell him the timber, sell the land to the settler, and get the settler a contract from the jobber to clear the land.

The CHAIRMAN. Have you any judgment as to the effect on the

spruce forest of the drainage of this land?

Mr. Arnold. I think it would be detrimental to any timber, and for that reason we are opposing the drainage of districts where there is a great quantity of timber.

The Chairman. Does not the forest grow better on the ground

that is not so wet?

Mr. Arnold. I think that the lands which carry spruce of merchantable quality are sufficiently dry. That is, by absorption and evaporation, so that the timber is not injured.

The CHARMAN. Is not the best spruce on the higher ground?

Mr. Arnold. The best spruce is upland spruce. The tamarack is generally along the edge, the best tamarack along the edge of the swamp extending from a short distance on the upland down into the swamps. I think where you find large bodies of tamarack in the swamps you will generally find that there is an underlying strata of stone which furnishes drainage, bowlders such as I described some

The CHAIRMAN. Do you think this spruce, the better spruce, is not

in the wettest swamps?

Mr. Arnold. No.

The CHAIRMAN. If you should drain that swamp off, is it not quite possible that removing so much cold water during the summer time you might benefit it rather than injure it?

Mr. Arnold. Probably; but I would have to wait that hundred years that you were telling of to realize the benefit.

The CHAIRMAN. Perhaps it would grow much more rapidly when it was dry. That has not yet been determined as to the effect of it.

Mr. Arnold. It has not been determined. I say it has not been determined. I think you will find, by applying to Prof. S. B. Green, at the agricultural department of the University of Minnesota, that you can get some very valuable statistics on the growth of timber in northern Minnesota, and especially in St. Louis County. I know Professor Green has come up here for a number of years, carrying on investigations of that character, and I know that he has statistics of some of the classes of timber, and, I think, on spruce as well as pine and tamarack.

The CHAIRMAN. He is a well-known authority on Minnesota for-

ests and forestry generally, I know that.

Mr. Arnold. Yes.

The CHAIRMAN. Have you been made familiar with the inquiry that the Bureau of Corporations is making to ascertain the forestry resources—the Bureau of Corporations of the Department of Commerce and Labor?

Mr. Arnold. I think it was a representative of that bureau that came to my office a short time ago, and I believe he obtained estimates of practically all our timber, so far as we have them.

The CHAIRMAN. Have your timber holdings generally been cruised

Mr. Arnold. They have; but some of them not for ten or twelve years. The additional timber that is now taken for different purposes is becoming so great in the last few years that estimates of seven or eight years ago are not considered too reliable. For instance, three years ago railroads in making contracts for ties would specify that 65 per cent of a contractor's output must be 7 by 7, and 35 per cent could be smaller than that, down to 6 by 6. A year ago last winter various railroads came into the Duluth market and made contracts for ties down to 5 by 5 as a standard, offering 60 cents per tie for such ties f. o. b. Duluth, unpeeled, the cost of peeling being about a cent or a cent and a half a tie.

The CHAIRMAN. How much would that be a cord?

Mr. Arnold. I could not say what that would amount to a cord, but I know that some of the lumber men figured that a double cord of spruce—that is, 256 cubic feet—will make a thousand feet of log timber in the larger spruce.

The CHAIRMAN. That is board measure?

Mr. Arnold. Yes.

The CHAIRMAN. How long are ties?

Mr. Arnold. Eight feet.

The CHAIRMAN. That is the size of a double cord?

Mr. Arnold. Yes.

The CHAIRMAN. That would be about \$8 a cord. Are you familiar with the country where the Northwest Paper Company mill cuts its pulp wood?

Mr. Arnold. Quite so from the report of my cruisers. Not from

personal knowledge.

The CHAIRMAN. Is that very similar to the general description you have been giving of your land?

Mr. Arnold. Yes, I think it is.

The CHAIRMAN. Do you own land over there, too?

Mr. Arnold. We own a good deal through there. The Northwest Paper Company has bought pulp wood of us at times. I think that they buy a great part of their supply from settlers.

The CHAIRMAN. We are going over to one of their lumber camps. I do not know whether that is simply a saw-log camp or a pulp-wood

camp or whether it is both.

Mr. Arnold. I think that is a saw-log camp, although the Cloquet Tie and Post Company has the by-product timber for all the Weyer-haeuser concerns and they have camps in there. They probably will take you to such camps as those.

Office of the Northern Lumber Company, Cloquet, Minn., October 20, 1908—4 p. m.

# STATEMENT OF RUDOLPH M. WEYERHAEUSER, OF CLOQUET, MINN.

(Sworn and examined by the chairman.)

The CHAIRMAN. This is young Mr. Weyerhaeuser, is it not? Mr. Weyerhaeuser. Yes, one of them. There are four of us.

The CHAIRMAN. Which is the youngest?

Mr. WEYERHAEUSER. I have one younger brother and two older brothers.

The CHAIRMAN. I have been told everywhere that these young

Weyerhaeusers know more about forests than anybody else.

Mr. Weyerhaeuser. You will find a good deal of jollying going on. Shall I point out the Cloquet holdings in a general way upon the map?

The CHAIRMAN. Yes.

Mr. WEYERHAUSER (pointing to the map). Cloquet is right in here. The Cloquet River comes up through here. We have the Duluth and Northeastern, one of our logging roads, which starts at Cloquet and goes right up through this bunch of timber. These colored places on the map represent the holdings of the three companies here in town.

The CHAIRMAN. The three companies which you people are inter-

ested in ?

Mr. Weyerhaeuser. Yes, sir. This up here is on the Mesaba Range.

The CHAIRMAN. What county is this?

Mr. WEYERHAEUSER. This is all St. Louis County.

The CHAIRMAN. Including what is on the Mesaba Range?

Mr. Weyerhaeuser. Yes, sir.

The CHAIRMAN. All of that marked on the map in that way is in St. Louis County?

Mr. Weyerhaeuser. Yes, sir.

The CHAIRMAN. Do these companies own the land or just the timber on the land?

Mr. WEYERHAEUSER. Partially both.

The CHAIRMAN. That represents practically timber that you own? Mr. WEYERHAEUSER. Timber holdings and largely cut-over lands.

The CHAIRMAN. What proportion would be cut over?

Mr. Weyerhaeuser. I would say probably 50 per cent. The Chairman. Do you know the extent of the three holdings in St. Louis County?

Mr. WEYERHAEUSER. No; I could not tell you.

The CHAIRMAN. How near do you think you could approximate it?
Mr. WEYERHAEUSER. The Northern Lumber Company possibly four hundred and fifty million, the Cloquet probably the same, the Johnson and Wentworth Company probably one hundred and eighty-five to two hundred.

The CHAIRMAN. About how many acres or townships?

Mr. WEYERHAEUSER. I could not tell you. I never figured up.

The CHAIRMAN. You have, then, quite a large percentage of the total area in St. Louis County, I judge.

Mr. WEYERHAEUSER. Well, it is a pretty big county.

The CHAIRMAN. Does it run clear to the north boundary line?

Mr. WEYERHAEUSER. Yes. As I understand, you were up in this country the other day.

The CHAIRMAN. Koochiching County is on the west of you at the

north end?

Mr. WEYERHAEUSER. Koochiching is right here. Here is International Falls.

The CHAIRMAN. What is that green on the map at the north end?

Mr. WEYERHAEUSER. That represents holdings of a concern at Lit-

tle Falls, and we had some holdings up there. And Grand Rapids some of our holdings of the Pine Tree Lumber Company.

Mr. Ryan. Is that one of your companies, the Pine Tree?

Mr. WEYERHAEUSER. We are interested in it.

Mr. Ryan. What does the light color indicate on the map, where the white is?

Mr. WEYERHAEUSER. That is vacant land, outside land. It does not indicate anything so far as we are concerned. I would say it was an unsurveyed town when that map was gotten up.

The CHAIRMAN. Is there any government land left around here?
Mr. WEYERHAEUSER. I imagine there is a small amount, but no

timber land.

The CHAIRMAN. Is there any land owned by the State?

Mr. Weyerhaeuser. Yes, sir.

The CHAIRMAN. Is that timber land largely or not?

Mr. Weyerhaeuser. They own a great deal of timber, and a large amount down in this lower country has been cut. The upper country has hardly been explored a great deal as yet.

The CHAIRMAN. Is that timber in the upper end of the county

accessible now?

Mr. WEYERHAEUSER. Were you at Koochiching the other night?

The CHAIRMAN. We were at International Falls.

Mr. WEYERHAEUSER. Then you came over what we call the Duinth, Rainy Lake and Virginia?

The CHAIRMAN. Yes; we came in the daytime.

Mr. WEYERHAEUSER. Here is Pelican Lake. You go down to Virginia and then the Missaba road brought you down to Duluth?

The Charman. Yes. Most of that territory at the north end has not been cut over yet.

Mr. WEYERHAEUSER. That is right.

The CHAIRMAN. This territory east of that, is there any way at

present of reaching that?

Mr. WEYERHAEUSER. Logs have been taken from Vermilion Lake and taken to Tower. Also carried down on the Iron Range road to Duluth.

The Charman. Has there been more or less of the white pine cut

out over areas all over this county?

Mr. WEYERHAEUSER. I am not positive on that. There has been a small amount taken to the lake and manufactured at Tower and up in here.

The CHAIRMAN. What proportion of the lower half of this county

would you say has been cut over?

Mr. Weyerhaeuser. I would say about 50 per cent. This land in here is largely swamp land.

The CHAIRMAN. Muskeg? Mr. Weyerhaeuser. Yes.

The CHAIRMAN. Has nothing on it worth cutting?

Mr. WEYERHAEUSER. No, sir.

The CHAIRMAN. What proportion of the forest is spruce, do you think?

Mr. Weyerhaeuser. I do not know.

The CHAIRMAN. What is the prevailing tree in the forest?

Mr. WEYERHAEUSER. The white pine and Norway and some spruce and aspen. We call it poplar here, I believe.

The CHAIRMAN. Is there a good deal of tamarack?

Mr. WEYERHAEUSER. Some tamarack.

The CHAIRMAN. Any balsam? Mr. WEYERHAEUSER. Yes, sir.

The CHAIRMAN. What is the balsam cut for—anything?

Mr. WEYERHAEUSER. We cut a small part of it if it is large enough, but hardly make a practice of it.

The CHAIRMAN. How does spruce grow, large or small?

Mr. Weyerhaeuser. It is small compared with what I have heard about Maine spruce or spruce out of this country. It runs about 4 to 6 or 7 inches in diameter.

The CHAIRMAN. Is there very much of the large upland spruce

suitable for saw logs?

Mr. WEYERHAEUSER. Yes; from 6 inches up to 7.

The CHAIRMAN. I mean 12 to 24.

Mr. WEYERHAEUSER. A very small percentage.

The Chairman. Up to a recent period, was it cut to any extent?

Mr. Weyerhaeuser. No, sir.

The CHAIRMAN. Do you know how long they have been cutting pulp wood up here?

Mr. Weyerhaeuser. About ten years.

The CHAIRMAN. Had there been any pulp wood cut here before then?

Mr. WEYERHAEUSER. Not that I know of.

The CHAIRMAN. The Wisconsin mills rely upon this territory quite largely now?

Mr. WEYERHAEUSER. They are drawing on it at the present time.

The CHAIRMAN. Is there much cut for them over in this locality

where your holdings are?

Mr. WEYERHAEUSER. Not to any large extent. They have been drawing largely from the Iron Range road which goes up through here, and then the Missaba up in here.

The CHAIRMAN. On each side of yours?

Mr. WEYERHAEUSER. Either side of the track, probably going back 4 or 5 miles, I should imagine, and hauling the stuff in.

The CHAIRMAN. Does spruce usually grow in swamp land and low

Mr. Weyerhaeuser. Yes, sir.

The Chairman. When you say there has been 50 per cent of these holdings probably cut over, what per cent would you say of the spruce

holdings have been cut over?

Mr. WEYERHAEUSER. I would say a very small portion of it. I have been here twelve years, and they have been operating in this town probably twenty-five years. Twelve years ago they would hardly look at a log less than 10 inches in diameter. The result was they left all the by-products and did not go into the swamps.

The Chairman. Is the only pulp wood that has been cut from your

holdings wood that has been cut for the Northwest Paper Company!

Mr. WEYERHAEUSER. No, sir; they have been shipping some to Wisconsin.

The CHAIRMAN. In your lumbering operations do you in cutting forests save the pulp wood?

Mr. WEYERHAEUSER. We endeavor to do so; yes, sir.

The CHAIRMAN. That is, you cut the forest out pretty clean where you cut at all?

Mr. Weyerhaeuser. Yes, sir.

The CHAIRMAN. When you are cutting for saw logs, and you come to a spruce swamp filled with spruce from 4 to 6 inches, do you cut that?

Mr. WEYERHAEUSER. No, sir; we cut our logs first, and then we have a subsidiary company that makes a business of getting out ties and pulp wood and posts and poles, and they follow up our logging operations and take what is left.

The CHAIRMAN. What do you cut out for logs first?

Mr. WEYERHAEUSER. Take the white pine and Norway and jack pine and tamarack and spruce down to probably 6 inches.

The CHAIRMAN. How small tamarack do you take?

Mr. Weyerhaeuser. About 5 inches.

The CHAIRMAN. That does not leave ties? Mr. WEYERHAEUSER. No; it don't make ties.

The CHAIRMAN. You would not leave any ties on that ground?

Mr. WEYERHAEUSER. In the tie proposition we sometimes go in and take the large trees and make ties out of them. It all depends on the market for ties as compared with lumber.

The CHAIRMAN. I wanted to get at the method. You stated that you had a subsidiary company that followed after your logging operations and cut out the ties and poles and pulp wood. If you cut

as low as 5 inches you would not have any ties left?

Mr. WEYERHAEUSER. No; but following that statement up it all depends on the market. Last winter we left the tamarack large enough

for making ties to make ties. This year we are going to cut the tie business out entirely and do as little as we possibly can.

The Chairman. You will cut the pulp wood business out except

what you need here, won't you?

Mr. WEYERHAEUSER. I think so.

The CHAIRMAN. Have you ever made any estimate about how long this spruce forest up here will last at the present rate of con-

Mr. Weyerhaeuser. No, sir; I don't know anything about it.

have no idea. I would not want to make a guess at it.

The CHAIRMAN. Do you know where there is any other good spruce forest?

Mr. WEYERHAEUSER. They tell me the best spruce is over in Lake

County. I have never been in the county to go into the timber.

The CHAIRMAN. Do you know of any spruce in the areas west of Minnesota?

Mr. WEYERHAEUSER. There is spruce on the Pacific coast.

The CHAIRMAN. Do you mean on the Pacific slope? Mr. WEYERHAEUSER. Yes, sir.

The CHAIRMAN. This side of the divide, is there much spruce in Idaho and Montana?

Mr. WEYERHAEUSER. I would say not.

The CHAIRMAN. Are you personally acquainted with the conditions out there?

Mr. Weyerhaeuser. I have been out there, but I am not in touch

with the details or been in the timber to any great extent.

The CHAIRMAN. Some gentlemen have testified that there is quite a good deal of spruce out there. I wondered if anyone had ever examined it carefully. Where are we going up here?

Mr. WEYERHAEUSER. That is pretty hard for me to answer without

asking you where you want to go or what you want to see.

The CHAIRMAN. We want to go up to one of your lumbering camps

if you have one in operation.

Mr. WEYERHAEUSER. Shall I ask Mr. McNair to tell you what the programme is? He has made the arrangements and it is up to him. We will take you anywhere you want to go.

Mr. RYAN. Before you go into that. Have you any idea as to the

amount of standing spruce in Minnesota?

Mr. WEYERHAEUSER. No, sir; I don't know anything about it. I have no basis to make any calculation on. I have seen statements varying a great many millions. We are a very small factor here, and are not in touch with it.

The CHAIRMAN. Have you recently been examined here by the Government under the Bureau of Corporations endeavoring to collect

forestry statistics?

Mr. WEYERHAEUSER. They have been out here pretty thick, Mr. Mann; yes, sir. They have asked about timber holdings that various parties are interested in and we have given them as near as we possibly could. We have turned in all those reports to the department, but a great deal of this timber, speaking for these various companies in general, has been bought on estimates made fifteen or twenty or twenty-five years ago, and we do not consider the estimates worth very much. It is largely a guess as to what there is.

The CHAIRMAN. Then the figures which you have returned from the figures which you have, you do not consider very reliable down to date ?

Mr. Weyerhaeuser. No. sir.

The CHAIRMAN. Is there any way of getting an accurate census of

the standing timber?

Mr. WEYERMAEUSER. I would like to make one statement. Five years ago or four years ago we bought some timber on a reservation here, Fond du Lac Reservation, under the Morris Act. The Government sold us, according to their estimate, 42,000,000. They made the estimate within six years. We have cut 49,000,000 of timber, and have cut approximately half of the descriptions. I just mention that to show you how closely they come to it.

The CHAIRMAN. Who made that estimate; who cruised the timber? Mr. WEYERHAEUSER. Somebody from Washington, I could not tell

The CHAIRMAN. The forestry department?

Mr. Weyerhaeuser. Yes.

The CHAIRMAN. That was under the Indian Office, of course?

Mr. WEYERHAEUSER. We pay for this timber bank scale.

Mr. Ryan. Explain that, please.

Mr. WEYERHAEUSER. An estimate is a mere guess. A cruiser will go through the timber and say there is a certain amount of timber on a section by description. After the logs are cut they are scaled and the payment is made on the actual measurement of the log, or the contents of the log.

Mr. RYAN. In other words, the estimate has nothing to do with

what you pay?

Mr. Weyerhaeuser. No. sir.

Mr. RYAN. You pay for what you get?
Mr. WEYERHAEUSER. We pay for what we get. I was just citing that to demonstrate how close an estimate would come.

The CHAIRMAN. Is that Indian reservation timber?

Mr. WEYERHAEUSER. Yes, sir.

The CHAIRMAN. Do you cut it clean? Mr. WEYERHAEUSER. Yes, sir.

The CHAIRMAN. I thought that act provided for cutting only matured timber. I thought they selected the trees to be cut.

(Mr. Weverhaeuser handed the chairman a pamphlet showing

Chippewa pine lands.)

The CHAIRMAN. How much of this ceded Chippewa pine lands

did you purchase, or the timber on it?

Mr. WEYERHAEUSER. According to the estimates, I think there was approximately 42,000,000.

The CHAIRMAN. What proportion of it? Mr. Weyerhaeuser. I could not tell you.

Mr. RYAN. That was the Fond du Lac Reservation?

Mr. WEYERHAEUSER. Fond du Lac Reservation.

The CHAIRMAN. They seem to have estimated only the pine. Mr. Weyerhaeuser. That is all they sold.

The CHAIRMAN. Is that what you cut?

Mr. Weyerhaeuser. Yes, sir.

The CHAIRMAN. Is there any spruce up there?

Mr. WEYERHAEUSER. Some scattering spruce.

The CHAIRMAN. Is there any left after you get through logging? Mr. WEYERHAEUSER. We leave it entirely. We do not take it.

The CHAIRMAN. I mean is it left standing or does it get broken

Mr. WEYERHAEUSER. It goes down, but it is left there intact.

The Chairman. You say you purchased 42,000,000 or 41,000,000? Mr. WEYERHAEUSER. I think it was 42,000,000, Government estimate.

The Chairman. You have already cut 49,000,000?

Mr. WEYERHAEUSER. Yes, sir. The CHAIRMAN. And got half of it left?

Mr. WEYERHARUSER. Approximately half of the descriptions.

The CHAIRMAN. Was that probably fairly well cruised?

Mr. WEYERHAEUSER. I don't know.

The CHAIRMAN. As estimating goes, I mean?

Mr. WEYERHAEUSER. I think lumbermen would come a little closer

to it. I do not want to criticise the Government's work.

The CHAIRMAN. Do not hesitate on our account. You can not criticise them any more than we often do. Is there any way of taking an accurate ceasus of the standing timber?

Mr. WEYERHABUSER. I do not think it is practicable. Conditions

are changing, timber is growing, and one thing and another.

The CHAIRMAN. Are there enough men in the country who know how to do it, to do it within a reasonable time?

Mr. WEYERHAEUSER. I don't think so.

The CHAIRMAN. Is there any conservation of the timber on your

holdings, or any effort to have reproduction?

Mr. WEYERHAEUSER. I would say no. We had Mr. Pinchot out here, and he sent a representative out to draw up a working plan for us, and made a very elaborate report which was very interesting, but the report showed it would take about fifty years to develop a tree 12 inches in diameter, and we hardly felt justified in going into it. Another great objection is the fact that, as I stated—Mr. Ryan. What sort of a tree do you refer to?

Mr. WEYERHAEUSER. I think it was a white pine tree. The fact that a large per cent of the holdings are permits, licenses to remove the timber, and after the expiration of the period the remaining timber reverts back to the original holder.

The Charman. Of course, you could not very well afford to keep that until after the time had expired and pay taxes on it. Do you

have adequate fire protection?

Mr. WEYERHAEUSER. I couldn't say. There have been rumors of forest fires on the range. As far as this office knows we have not lost a tree this summer.

The CHAIRMAN. Do you call that the result of good luck or wise

management?

Mr. Weyerhaeuser. I consider it good luck in having cruisers around tending to their business.

The CHAIRMAN. You have had men watching for the fires?

Mr. WEYERHAEUSER. Certainly. We had probably four men up in the vicinity of Chisholm. The town of Chisholm is located right We have timber in these towns, and we had men watching there all the time and did not lose anything. Chisholm is here.

The CHAIRMAN. That is on the outskirts of your holdings?

Mr. Weyerhaeuser. Within 6 or 8 miles.

The CHAIRMAN. How about the rest of your holdings?

Mr. Weyerhaeuser. We have not lost any timber that we know of. The CHAIRMAN. Have you areas of land of sufficient size to induce you, under favorable conditions, to attempt the reproduction of timber?

Mr. WEYERHAEUSER. I would not consider it such here in Minnesota. I do not think it is practicable to wait fifty years to get a tree 12 inches in diameter, as Mr. Pinchot's report showed.

The CHAIRMAN. We saw the result of having to wait one hundred years to get a spruce tree 4 inches in diameter in many places up

here. What are we going to do for timber after a while?

Mr. WEYERHAEUSER. I do not want to cross a bridge until I come

The CHAIRMAN. A man who is going on a journey and does not know whether there is a bridge across the river that he has got to cross would not be considered the wisest sort of a traveler.

Mr. WEYERHAEUSER. That is so.

The CHAIRMAN. I imagine when you get out into the woods to a place where there is a river you come prepared to get over.

Mr. WEYERHAEUSER. We endeavor to. Sometimes we fail.

The CHAIRMAN. So in that case you do cross the bridge before you come to it?

Mr. WEYERHAEUSER. Yes, sir.

The CHAIRMAN. What are we going to do for timber in a few years from now at the present rate of consumption, in your opinion?

Mr. WEYERHAEUSER. I think there is timber enough in this country

to last a great many years.
The CHAIRMAN. Where is it?

Mr. WEYFRHAEUSER. In Minnesota here; in Montana and Idaho and the Pacific coast; in the Southern States.

The CHAIRMAN. You are cutting the timber off pretty rapidly up

here, aren't you?

Mr. WEYERHAEUSER. We are making some headway on it, but not near as fast as I was told that we would be ten years ago. In other words, I came here twelve years ago and I was told that it would be cut out in ten years, and we have been here twelve years and we have got 450,000,000 feet of standing timber.

The CHAIRMAN. A gentleman estimated to us this morning that you probably had 40,000,000 cords of pulp wood standing. Do you think that would probably be anything like an accurate estimate?

Mr. WEYERHAEUSER. I could not tell you. I know absolutely noth-

ing about it.

Mr. Ryan. Is the estimate of the standing timber on that Fond du Lac reservation that you mentioned a short time ago a fair example of the estimates given generally of the standing timber on other tracts?

Mr. WEYERHAEUSER. I would say not.

Mr. RYAN. In what respect does it differ?

Mr. Weyerhaeuser. They ought to get within 10 or 15 per cent of the actual amount of timber on the land.

Mr. Ryan. They do come that near?

Mr. Weyerhaeuser. Yes, sir.

Mr. Ryan. Is that the way that the timber is always purchased; that is, they make an estimate and then pay for what you get out of it?

Mr. WEYERHAEUSER. That is the idea, unless we should buy the

logs bank scale.

Mr. Ryan. Suppose you buy a tract of land, buy the entire land and all, including the standing timber, how near can they come to the amount of standing timber if they estimate it at a fixed amount,

or do they ever do it that way?

Mr. WEYERHAEUSER. It depends entirely on the basis that they take the estimate. Ten years ago they estimated down to 8 inches. On the Pacific coast they take the standard of 12 inches at the top. In this country they are estimating down to 6 inches and 5 inches.

Mr. RYAN. At the top?

Mr. Weyerhaeuser. Yes, sir.

Mr. RYAN. A tree that was 6 inches at the top twelve years ago is quite a good-sized tree now?

Mr. WEYERHAEUSER. It has grown some.

Mr. Ryan. That is one of the reasons why it runs over?

Mr. WEYERHAEUSER. That might have something to do with it.

The CHAIRMAN. That estimate was not made twelve years ago that he refers to. Mr. Weyerhaeuser refers to a pamphlet issued by W. A. Richards, Commissioner-General of the Land Office, entitled "Ceded Chippewa Pine Lands, Minnesota. Descriptions of lands and estimates of pine timber on Pigeon River, Fond du Lac, Deer Creek, and parts of Chippewa, of the Mississippi, Winnebigoshish, Leech Lake, Red Lake, and White Earth Indian reservations. Instructions to local officers, rules and regulations for selling and removing timber to be sold at Cass Lake, Minnesota, on November 15, 1904. Approved April 28, 1904. Printed at the Government Printing Office in 1904. And referring to an act entitled an act to amend an act entitled an act for the relief and civilization of the Chippewa Indians, in the State of Minnesota, approved January 14, 1889, the amendatory act approved June 27, 1902. 32 Statutes at Large, page 400." Where are we going when we start out?

Mr. McNair. We would like to have you go to the Northwest

Paper Company mill.

The CHAIRMAN. To-morrow where are we going?

Mr. WEYERHAEUSER. If you will step to the map we will show you right exactly where. You go up on the logging road from Cloquet up the Cloquet River, which branches off here and goes up through this country. You are going to Stroud. Stroud is right there and Rush Lake is right there.

The CHAIRMAN. How long will we be gone?
Mr. McNair. That is entirely for you to say. We can be back to-morrow night from there.

The CHAIRMAN. Do you know how much you have cut off your

own land?

Mr. McNair. Practically none of the paper company's land.

The CHAIRMAN. You cut saw logs on your own land?

Mr. Weyerhaeuser. Yes, sir.

The CHAIRMAN. Does the company own much land?

Mr. McNair. We have about 30,000 acres.

The CHAIRMAN. Do you get most of your pulp wood now from the

other Weyerhaeuser companies?

Mr. McNair. Up to the last year practically all of our pulp wood has come from outside sources other than the Weyerhaeuser companies.

The CHAIRMAN. Mr. Weyerhaeuser, you have traveled over this

land a good deal?

Mr. Weyerhaeuser. I have been up in this country for twelve vears, more or less.

The CHAIRMAN. Is it good farm land or capable of being made into

good farm land?

Mr. WEYERHAEUSER. I would say a better grazing country than a farming country. They can raise all kinds of roots up there.

The Chairman. It is largely a peaty substance, isn't it?

Mr. WEYERHAEUSER. There is some light soil and very stony.

The CHAIRMAN. What kind of soil has the swamps?

Mr. Weyerhaeuser. A sort of peat, I would imagine you would call it.

The CHAIRMAN. Muskeg is mostly all peat apparently.

Mr. Weyerhaeuser. Yes, sir.

The CHAIRMAN. Supposing that is drained off, what effect would

that have on the forests?

Mr. WEYERHAEUSER. Some people claim it will kill the timber and other people say it will not. This country has never been drained, so I could not tell you.

The CHAIRMAN. If they drain the country off and that should have the effect of injuring the spruce forests, the natural thing to do would

be to cut it down as rapidly as possible, I suppose.

Mr. Weyerhaeuser. I should think so. But I do not believe that draining the swamps would affect the spruce, from the fact that it grows on the high land as well as the low land. I believe it would kill the tamarack much quicker than the spruce.

The CHAIRMAN. The peat, even in a spruce forest, is pretty thick,

isn't it?

Mr. Weyerhaeuser. Yes, sir. The CHAIRMAN. Three to 5 feet?

Mr. WEYERHAEUSER. I couldn't tell you. I never dug down.

The CHAIRMAN. You have seen these ditches along the railroad tracks?

Mr. Weyerhaeuser. Yes, sir.

The CHAIRMAN. You can see they are from 3 to 5 feet?

Mr. WEYERHAEUSER. Fully that.

The CHAIRMAN. Mostly they are peat?

Mr. Weyerhaeuser. Yes, sir.

The CHAIRMAN. A spruce tree does not send its roots down very deep, as a rule.

Mr. Weyerhaeuser. No, sir.

The CHAIRMAN. If you drain that land off so that the level of the water is constantly reduced from above the surface to 3 or 4 feet below the surface it might have a very detrimental effect.

Mr. WEYERHAEUSER. There is no doubt about that. change would affect it more or less. It would stunt the growth at

least.

The Chairman. It is the constant observation in Chicago, at least. where the sand ridges were all covered with oak, that putting in a sewer system and reducing the level of the water in the sand several feet will kill off a fairly large percentage of the oak at once. If the tree survives a year or two and manages to get roots down to the water level it is very apt to continue in a healthy condition. That might be the case with your spruce forests. Is any effort being made to drain this land up here that you know of?

Mr. Weyerhaeuser. No, sir; not in our immediate territory.

The CHAIRMAN. Aren't there some state drainage ditches going in

in the southwestern portion of this county?

Mr. WEYERHAEUSER. The State is putting in a drainage system all through the State, as I understand, but not up in our timber holdings. The CHAIRMAN. You run pretty well toward the southwestern por-

tion of the county according to that map?

Mr. WEYERHAEUSER. I could not tell you where the State is putting

in ditches in this county. I have never been there.

The CHAIRMAN. Mr. Arnold told us this morning that they were putting in a series of ditches there and I think the total length was about 45 miles, though I am not sure.

Mr. Ryan. \$45,000 was appropriated.

The Chairman. About 40 miles, Mr. Norris says, in four years' time. If the land should be considered as valuable when drained for any form of agriculture, it is sure to be drained in a little while, isn't it?

Mr. Weyerhaeuser. I do not think there is any doubt about it.

The CHAIRMAN. It is not valuable for timber reproduction, in your opinion, if it takes fifty years for a 12-inch white pine to develop, or a hundred years for a 6-inch spruce. It would not be worth while to hold it for that purpose, would it, as against farm land?

Mr. WEYERHAEUSER. I shouldn't think so.

The CHAIRMAN. Isn't there a good deal of this land that is worthless for any other purpose, where it is rocky and stony?

Mr. WEYERHAEUSER. There is a great deal of waste land right

through here [indicating].

The CHAIRMAN. That is right west of your main holdings?

Mr. WEYERHAEUSER. Yes, sir.

The CHAIRMAN. In the western portion of this county?

Mr. Weyerhaeuser. Yes.

The CHAIRMAN. That is muskeg?

Mr. Weyerhaeuser. Muskeg.

The CHAIRMAN. In the territory that you have through there are there many settlers?

Mr. Weyerhaeuser. No, sir.

The CHAIRMAN. There is no homestead land there to speak of?

Mr. Weyerhaeuser. Very few settlers except on the rivers—a few get in. There are a few in there, but take it as a whole, there is a very small percentage of settlers.

The CHAIRMAN. What becomes of the land that has been cut over? Mr. Weverhaeuser. We have been carrying it; paying taxes on it;

holding it.

The CHAIRMAN. It is not utilized in any way?

Mr. Weyerhaeuser. No. sir.

The CHAIRMAN. Is it getting any second growth timber on it? Mr. WEYERHAEUSER. In places the second growth of timber is The CHAIRMAN. Do you consider that of any value?

Mr. Weyerhaeuser. It will be eventually if settlers come in there for fuel, but not from a timber standpoint.

The CHAIRMAN. You think it will never likely get large enough for

Saw logs?
Mr. Weyerhaeuser. I think not, unless we wait a hundred years.

The CHAIRMAN. Do you think there is any probability of that land remaining without fire long enough to develop merchantable timber?

Mr. WEYERHAEUSER. No, sir; that is the great hazard that we have to contend with. One of the main objections to reforesting is the

hazard, and there is also the taxes.

The CHAIRMAN. If you owned a piece of land up here of sufficient size that under other circumstances might pay you to develop timber on it and it was worthless for any other purpose, in order to do that you would have to pay the taxes on the value of the land year by year, I suppose?

Mr. WEYERHAEUSER. Yes, sir.

The CHAIRMAN. Then in order to preserve your timber you would have to furnish an adequate fire protection at considerable expense; is that right?

Mr. WEYERHAEUSER. Yes, sir.

The CHAIRMAN. In your opinion that would not pay?

Mr. WEYERHAEUSER. No, sir.

The CHAIRMAN. Supposing the State owned that land, or the General Government. They are talking of creating a forest reservation in the White Mountains for the benefit of the summer resorters, one in the Appalachians for the benefit of the Vanderbilt estate, and others down there. Why wouldn't it be practicable for the Government to really create a forest reservation up here on land that was worth little for any other purpose and raise pulp wood for future dissemination of knowledge throughout the world?

Mr. Weyerhaeuser. I believe it would be practicable for the State or Government to enter into a thing of that kind, but when it comes to an individual or a corporation I do not believe they can afford to

wait for it.

The CHAIRMAN. Have you ever considered the fact that in Maine the large companies that own pulp wood do not cut the smaller timber. but keep it for future growth?

Mr. WEYERHAEUSER. I am not familiar with the operations at all. The CHAIRMAN. In some of those holdings they cut nothing under

14 inches—so they say.

Mr. WEYERHAEUSER. Mr. Pinchot's original proposition was first to cut nothing less than 12 inches, and he found that there was a very small amount of timber here larger than 12 inches.

The CHAIRMAN. He would not get any pulp wood?

Mr. WEYERHAEUSER. Not any pulp wood and not very much pine. The CHAIRMAN. Do you think there is a possibility of getting the

testimony of your father?

Mr. Weyerhaeuser. I can not tell you. My father was in St. Paul yesterday. I was sorry to see that there was quite a fire in Rock Island, and he may have gone there.

The CHAIRMAN. If we go back to St. Paul I would like to get the statement of your father and Mr. T. B. Walker. It would seem as though the older generation which has reached the point where it can look calmly at things might be willing to give some general views for the benefit of the succeeding and the next generation. They probably never will have as good opportunity again for doing it, and everybody thinks, except himself, that he knows more about it than anyone else.

Mr. WEYERHAEUSER. He is hardly in touch with the details of the various operations, but in a general way he can give you valuable

information.

The CHAIRMAN. That is what I mean. I think his views would be of considerable interest. I would like to have him do it. You are

going up with us?

Mr. WEYERHAEUSER. I can go. I have got a message on my desk to go to Duluth to-morrow. I can postpone that if I can be of any assistance to you, and would be glad to go.

The CHAIRMAN. I do not know that you can be of any assistance,

but we would like your company.

Mr. WEYERHAEUSER. That settles it. I shall be glad to go.

The committee visited and inspected the paper mills of the Northwest Paper Company at Cloquet, Minn., October 20, 1908.

OCTOBER 21, 1908.

The committee, with Mr. Weverhaeuser and others, took a trip of about 50 miles and return on the railroad of the Duluth and Northeastern Railroad Company.

CLOQUET, MINN., October 21, 1908-4 p. m.

# STATEMENT OF H. C. HORNBY, OF CLOQUET, MINN.

(Sworn and examined by the chairman.)

The CHAIRMAN. Give your name?

Mr. Hornby. H. C. Hornby.
The Chairman. What company are you connected with?

Mr. Hornby. Cloquet Lumber Company.

The CHAIRMAN. How long have you been operating in this part of the country?

Mr. Hornby. I have been here twenty-four years.

The CHAIRMAN. In connection with the logging or lumber business

Mr. Hornby. Yes, sir.

The CHAIRMAN. Are you quite familiar, from your experience, with the forest situation in this part of Minnesota?

Mr. Hornby. I know some of it in regard to our own operations.

The CHAIRMAN. What do you get out mostly?

Mr. Hornby. Saw logs and ties and pulp wood, cedar posts and poles.

The CHAIRMAN. What are the saw logs?

Mr. Hornby. White pine, Norway, tamarack, and spruce.

The CHAIRMAN. What is the prevailing timber here?

Mr. Hornby. White pine is the majority.

The CHAIRMAN. On what character of ground does that grow !

Mr. Hornby. It is quite a variety of ground. Some quite rocky and other not so bad. All this country is more or less of a glacial formation; bowlders and stones in it.

The CHAIRMAN. White pine grows best on rocky ground?
Mr. Hornby. No; it grows best on the better ground. The finest white pine we get is in hard-wood timber, which is generally on pretty fair land.

The CHAIRMAN. What kind of an undersoil?

Mr. Hornby. Gravel.

The CHAIRMAN. What grows in the swampy portion of the country? Mr. Hornby. Spruce, tamarack, cedar, some black ash, and elm.

The CHAIRMAN. How large does the spruce grow generally? Mr. Hornby. It varies from 3 to 12 inches; very little over 12.

The CHAIRMAN. How large does it grow in the muskeg?

Mr. Hornby. Three or 4 inches in diameter. From 1 inch to 4 inches.

The CHAIRMAN. Have you any idea of the age of the spruce?

Mr. Hornby. It never seems to grow any in the muskeg. I never looked up the age of the other spruce at all.

The CHAIRMAN. What is your judgment as to the future of the for-

ests in Minnesota; how long they will last?

Mr. Hornby. There is quite a considerable timber left in Minnesota yet and every year it is used closer; there is less waste, and every kind of wood is being utilized, which makes it go a good deal further than it used to.

The CHAIRMAN. What do you mean by that? For instance, give

us a comparison.

Mr. Hornby. Take, say, fifteen years ago, the grade of No. 5 boards was unknown. It was all burned to get it out of the way.

The CHAIRMAN. What is No. 5 board?

Mr. Hornby. Very low grade of cull lumber. Short lumber is saved for box lumber.

The CHAIRMAN. We notice large quantities of pieces cut up for box

making. What was done with them a few years ago?

Mr. Hornby. It all went into wood and was burned up.

The CHAIRMAN. That is now taken out from what would have been then culls?

Mr. Hornby. Yes, sir.

The Chairman. Are you very familiar with the spruce forest here or do you pay much attention to that?

Mr. Hornby. The Cloquet Tie and Post Company get out consid-

erable quantities of spruce every year.

The CHAIRMAN. Where you log over you take out the saw logs?

Mr. Hornby. We take out the saw logs and sometimes the spruce and ties; at other times we turn it over to the tie company. It depends on the logging operation.

The Charman. They follow you up?

Mr. Hornby. As a general thing.

The CHAIRMAN. How soon do they go over it after the loggers go

Mr. Hornby. Sometimes they go over it the same year. There is lots of it they have not been on at all.

The CHAIRMAN. Lots of it has been burned over?

Mr. Hornby. Some of it has been burned over.

The CHAIRMAN. Is there much second-growth timber here?

Mr. Hornby. There are a great many places where there is a good growth of timber started.

The CHAIRMAN. How large would that be, how old?

Mr. Hornby. Some of it would be twenty years. Very little older than that.

The CHAIRMAN. If you could keep fire out of that, it would soon become valuable?

Mr. Hornby. Yes, sir.

The CHAIRMAN. With fire going into it, it is of no value?

Mr. Horney. It burns it up, especially in the white pine. Norway don't suffer so much.

The CHAIRMAN. As well as the spruce?

Mr. Hornby. Yes; spruce won't stand fire at all.

Mr. RYAN. Until very recently very little attention was paid to spruce timber in this territory?

Mr. Hornby. Within the last few years.

The CHAIRMAN. Why?

Mr. Hornby. It was not supposed to be valuable for saw logs. Lumber was not worth enough to handle it. It is small and the logging of it costs a good deal. Since lumber has got to a point where it can be handled at a profit, they put a good deal into saw logs, and there has been a call for it for pulp wood in recent years.

The CHAIRMAN. What is the difference in value between white-

pine boards and spruce boards for lumber?

Mr. Hornby. We get very little spruce that runs to the upper grade of lumber. There is a small amount of spruce that will go better than a No. 2 board, which is just about medium in white pine.

The CHAIRMAN. I do not quite understand.

Mr. Hornby. The best of the spruce is only about medium grade of white pine.

The CHAIRMAN. What is the difference in value?

Mr. Hornby. That is about the difference that I could give you.

The CHAIRMAN. What is No. 1 pine worth in the market?

Mr. Hornby. It all cuts together according to the grade it will make. The best of the spruce only makes a poorer grade of white pine.

The CHAIRMAN. What is No. 1 grade worth to-day of white pine?

Mr. Hornby. \$22.

The CHAIRMAN. What is No. 2 grade worth?

Mr. Hornby. About \$20. That is in piece stuff, 2 inch. In boards it is worth more.

The Chairman. Good spruce is worth about 10 per cent less than

good pine?

Mr. Hornby. No. If the average grade of pine would be \$24, the spruce would not be worth over \$18 at the outside, 25 per cent less.

The CHAIRMAN. Then you revise your figures?

Mr. HORNBY. You asked me the price of No. 1 white pine and the price of No. 2 pine and I gave it \$22 and \$20. We make about 50 grades of lumber, and I told you that spruce was about the medium, about half way between our poorest white pine and our best. There are 50 grades in there.

The CHAIRMAN. Do you think there is any danger of white pine giving out up here?

Mr. Hornby. It will in time.

The CHAIRMAN. Any danger of spruce giving out? Mr. Hornby. It will in time.

The CHAIRMAN. Is there any practical reproduction of spruce here? Mr. Hornby. I think that it will grow, but all this timber grows

The CHAIRMAN. Have you any opinion as to the effect of draining

the swamps?

Mr. Hornby. Only that spruce won't grow on dry land very well. The CHAIRMAN. The best spruce you have got is upland spruce?

Mr. Hornby. Yes, but the bulk of the spruce is in the swamps. The CHAIRMAN. You think that that indicates that that spruce won't grow on upland?

Mr. Hornby. It will grow on upland because it is growing there. The bulk in this country is growing in the swamps or low grounds.

The CHAIRMAN. Have you any other suggestion to make to us from

your large experience in connection with these matters?

Mr. HORNBY. I do not think I have, except in connection with my work. I am not a student of the subject at all. I think that the forests could be perpetuated easy enough if they would go at it and try to do it, if the State and Government would cooperate. The taxes are what eats the thing up.

The CHAIRMAN. What are the taxes on ordinary land up here which

is denuded of the forests?

Mr. Hornby. I could not give you that exactly. It usually eats up the value of the land.

The CHAIRMAN. If the land had a young forest growing on it, the

forest would be getting more valuable, wouldn't it?

Mr. Hornby. Mr. Pinchot's department came up here one time and made an extensive study of the situation with a view of putting our holdings on a forestry basis, and he found that the average life of the timber in the country you were in to-day was about seventy years.

Mr. Ryan. Do you agree with him in his conclusion?

Mr. Hornby. Yes; I would.

The CHAIRMAN. Do you think you can reproduce one of those white-pine trees we saw to-day in seventy years?

Mr. Hornby. Not the biggest ones. That is old timber. That probably is one hundred and fifty years old, or one hundred and twenty-five.

The CHAIRMAN. Their opinion was you could reproduce 12-inch

white pine in about fifty years, wasn't it?

Mr. Hornby. It was the average pine in that country. I think the pine you saw last would be about an average stand.

#### STATEMENT OF F. H. CROMBIE, OF SPOKANE, WASH., TAKEN AT CLOQUET, MINN.

(Sworn and examined by the chairman.)

The CHAIRMAN. Give your full name.

Mr. Crombie. F. H. Crombie.

The CHAIRMAN. Where do you live?

Mr. Crombie. Spokane, Wash.

The CHAIRMAN. You are interested in one of the lumber companies

Mr. Crombie. Slightly interested here.

The CHAIRMAN. Are the Weverhaeusers interested with you out

Mr. Crombie. No, sir.

The CHAIRMAN. Are you familiar with the forestry situation in Idaho and Montana?

Mr. CROMBIE. Somewhat.

The CHAIRMAN. What are the forestry conditions out there?

Mr. Crombie. The woods are every evergreen that grows. includes white pine—I am speaking now of the Panhandle of northern Idaho-white pine, yellow pine, spruce, red and white fir, cedar, hemlock, and in addition to the evergreens is tamarack.

The CHAIRMAN. Do they grow in about equal proportions? Mr. Crombie. I should say probably 30 per cent white pine.

The CHAIRMAN. How much of tamarack?

Mr. Crombie. It would be hard to give you the percentage of those other woods. In estimating timber there we usually put white pine, which is the most desired wood, by itself and bunch the others. other woods would vary, those that I have named, I should say, from 5 to 10 per cent each.

The CHAIRMAN. How much spruce is there out there?

Mr. CROMBIE. Spruce does not grow in all localities, but as near as I can make an estimate it is probably 5 to 7 per cent of the whole. The CHAIRMAN. Does it grow up on the sides of the mountains?

Mr. Crombre. Yes, sir; and our spruce is a good deal of it good size; not small, as it is here. It is logging size.

The CHAIRMAN. It grows higher up on the sides of the mountains,

doesn't it?

Mr. Crombie. Quite a portion of it. We have some in the low

The CHAIRMAN. Spruce grows up toward the top of the timber line, I think, out there, doesn't it?

Mr. Crombie. Largely so; yes, sir.

The CHAIRMAN. Is it accessible for logging purposes?
Mr. CROMBIE. Yes; when they open up the logging operations they get it along with the other.

Mr. Ryan. Has any of the spruce out there been cut? Mr. Crombie. Yes, sir; they cut it when they come to it.

Mr. Ryan. What are they cutting it for now?

Mr. Crombie. It is cut for lumber.

Mr. RYAN. Not for pulp?

Mr. Crombie. Not for pulp wood. There are no pulp mills in that vicinity.

The CHAIRMAN. How is it out in Washington?

Mr. Crombie. There are localities where there are immense bodies of spruce over on the Sound. I do not know as there is any right on the Sound, but in the vicinity of Grays Harbor, along there.

Mr. RYAN. Is that like this spruce here?

Mr. Crombie. No, it is larger spruce and better quality.

The CHAIRMAN. Saw-log spruce?

Mr. Crombie. Yes, sir.

The CHAIRMAN. Too valuable for pulp wood, I suppose.

Mr. CROMBIE. I think there is a portion that they would probably use for pulp wood if there were mills in that vicinity.

The CHAIRMAN. Have they any paper mills out there that you

know of?

Mr. Crombie. I am not so well acquainted on the Sound. There are none in our vicinity. I am not sure whether there are any on the Sound or not.

The CHAIRMAN. You are not familiar with the question of where they get their pulp wood from?

Mr. Crombie. No; I am not.

Mr. RYAN. The freight would be rather prohibitory, I suppose, in regard to shipping wood from Idaho and that territory?

Mr. Crombie. I think absolutely so.

### STATEMENT OF JOHN C. CAMPBELL, OF CLOQUET, MINN.

(Sworn and examined by the chairman.)

The CHAIRMAN. Give your name. Mr. CAMPBELL. John C. Campbell.

The CHAIRMAN: What company are you connected with?

Mr. Campbell. Cloquet Lumber Company.

The CHAIRMAN. How long have you been operating here?

Mr. Campbell. About nineteen years.

The CHAIRMAN. What is your opinion of the forestry situation here, the timber question, as to the future?

Mr. CAMPBELL. I think there is a great deal of timber yet—spruce,

pine and Norway, cedar, balsam, and all that kind of wood.

The CHAIRMAN. Has there been a good deal cut in the last ten years?

Mr. Campbell. Yes; there has been considerable cut.

The CHAIRMAN. How many million feet are cut into boards here at this town in a year?

Mr. Campbell. I could not give you the figures.

The CHAIRMAN. How many does the Cloquet Lumber Company

Mr. Campbell. I suppose they cut somewhere about seventy-five or eighty millions. I do not pay any attention to the manufacturing end.

The CHAIRMAN. How many million feet did we see piled up in the jam to-day, do you remember?

Mr. CAMPBELL. I could not say. There might be 50,000,000; I don't

The CHAIRMAN. Mr. Hornby made an estimate of that for us, didn't he?

Mr. Hornby. About twenty-five is in sight there, I think.

Mr. Ryan. What sort of lumber do you get out?

Mr. Campbell. White pine and Norway, balsam, spruce, and tamarack.

Mr. Ryan. How long have you been cutting spruce and tamarack?

Mr. Campbell. About three or four years, I think.

The CHAIRMAN. Do you get out ties, too? Mr. CAMPBELL. Some; not a great many.

The CHAIRMAN. Do you get out any pulp wood?

Mr. Campbell. Some.

The CHAIRMAN. Who gets out most of the pulp wood for the Northwest Paper Company?

Mr. CAMPBELL. I think the Cloquet Tie and Post Company.

The CHAIRMAN. That is one of the Weyerhaeuser subsidiary companies?

Mr. Campbell. I think so.

The CHAIRMAN. The Weyerhaeuser interests control all your companies here, don't they?

Mr. CAMPBELL. I don't know. I couldn't say just how the stock

is held.

The CHAIRMAN. They are interested in all of the companies?

Mr. Campbell. Yes; I think so. The Chairman. What are your views as to any efforts that might

or could be made for the reproduction of the forest here?

Mr. Campbell. I think that they can reproduce the different woods if left alone to grow and the fire does not disturb them. White pine and Norway seems to come up and grow right along.

Mr. Ryan. Would it be a profitable venture for private interests?

Mr. CAMPBELL. I don't think so. It takes too long to mature.

Mr. CHAIRMAN. Where you cut over, do you aim to cut the forest clean?

Mr. Campbell. Yes, sir; at present we cut it pretty clean.

The CHAIRMAN. Do you think that land will be used hereafter for the reproduction of forests, or for agricultural purposes?

Mr. Campbell. I could not say. There is some of it that would not be profitable for agricultural land.

The CHAIRMAN. Why not?

Mr. Campbell. It is too rocky.

The CHAIRMAN. Wouldn't that do for pasture lands?

Mr. CAMPBELL. It might. I don't know. I don't think it would do as well.

The CHAIRMAN. Does it grow good grass? Mr. CAMPBELL. Yes; fair grass grows on it. The CHAIRMAN. How about the lower land?

Mr. Campbell. I think the lower land, if drained, might be better grass land than high land.

The CHAIRMAN. What is the reason, in your opinion, that the

spruce does not grow any better in the muskeg?

Mr. CAMPBELL. I don't know, unless it is too wet in some places. The CHAIRMAN. You saw me cut down some small spruce trees to-day?

Mr. CAMPBELL. No; I was not along at that time.

The CHAIRMAN. Where was that that I cut those down, Mr. Hornby?

Mr. Hornby. It was in township 55, range 14.

The CHAIRMAN. Up at camp 5?

Mr. Hornby. This side of camp 5. The CHAIRMAN. On your line of road?

Mr. Hornby. I think it was on Johnson & Wentworth's land, but I am not sure.

The CHAIRMAN. That was on the Duluth and Northeastern Railroad?

Mr. Hornby. Yes, sir.

The CHAIRMAN. Do you think it is too wet in the swamps for spruce ?

Mr. Campbell. I think so, in some places. It has been a very dry

The CHAIRMAN. Spruce grows in very wet ground?

Mr. Campbell. It does; but there are some of those swamps that

are nothing but peat. If you dry it out, it will burn.

The CHAIRMAN. Tamarack grows in still wetter ground. Do you think it is on account of the wetness here or on account of the character of the soil, the peat?

Mr. Campbell. It is the character of the soil. It is more of a black muck where the tamarack and larger spruce grows, around the

foot of the hills where it is better soil.

The CHAIRMAN. This peat is how deep down?
Mr. CAMPBELL. In some places it is 10 feet. You can cut it right out like cheese. There doesn't anything seem to grow on it very much.

Mr. RYAN. It is all wet to the bottom?

Mr. Campbell. It is kind of vegetation and roots.

The CHAIRMAN. Has anybody experimented to see whether that would grow any crop or not?

Mr. CAMPBELL. I think they have, but I have heard no report

Mr. Ryan. What sort of land was it that was used where they have farming up at some camp? Is that this same character of soil?

Mr. CAMPBELL. No; that is a sandy loam. That is on the high ground.

The CHAIRMAN. That is real soil?

Mr. Campbell. Yes; that is fair soil for this country.

## STATEMENT OF JOHN H. CHISHOLM, OF CLOQUET, MINN.

(Sworn and examined by the chairman.)

The CHAIRMAN. Give your full name.

Mr. Chisholm. John H. Chisholm.

The CHAIRMAN. What company are you connected with?

Mr. Chisholm. Johnson & Wentworth.

The CHAIRMAN. That is one of the large lumber companies here?

Mr. Снівноім. Yes, sir.

The CHAIRMAN. And logging companies? Mr. CHISHOLM. Yes, sir.

The CHAIRMAN. Do you do a great deal of lumbering?

Mr. Chisholm. 35,000,000 a year. The CHAIRMAN. Mostly saw logs?

Mr. Chisholm. Yes, sir.
The Chairman. Cut a good many ties?

Mr. Chisholm. Not a great many.

The CHAIRMAN. Cut any pulp wood? Mr. CHISHOLM. Very little.

The CHAIRMAN. Do you go over the forest first, where you cut, and cut out the saw logs and then have the tie and post company go over after you?

Mr. Chisholm. Yes, sir.

The CHAIRMAN. Have you any views as to the reproduction of the forest or the conservation of the forest here?

Mr. Chisholm. You mean reproduction of timber?

The CHAIRMAN. As to the reproduction of timber or cutting out a certain part of the timber and leaving the smaller timber to grow?

Mr. Chisholm. When you cut out the larger timber as a rule the smaller timber will die off with the exception of the spruce swamps. If you can keep the fire out of that it will grow.

The CHAIRMAN. You say the timber will die off. You mean the

fire gets in and kills it?

Mr. Chisholm. Yes, sir.

The CHAIRMAN. The great enemy of reproduction up here would be fire?

Mr. Chisholm. Yes, sir.

The CHAIRMAN. Do you think it would be profitable to endeavor to reproduce timber here?

Mr. Chisholm. That would depend, in my judgment, on how you

The CHAIRMAN. At the present rate will there be any white pine in twenty-five or fifty years anywhere in the country?

Mr. Chisholm. I think there will be white pine left in twenty-five

vears at this rate of cutting.

The CHAIRMAN. Where will it be?

Mr. Chisholm. In the northern part of the State, St. Louis oCunty.

The CHAIRMAN. There is not much in Koochiching County?
Mr. CHISHOLM. You did not get down into the interior. Between

the Iron range and Koochiching there is lots of timber.

The CHAIRMAN. If there is no white pine reproduced, white pine is liable to be rather expensive in a few years, isn't it?

Mr. Chisholm. Yes, sir.

The Chairman. Is there any effort being made anywhere that you know of to reproduce the white-pine forest?

Mr. Chisholm. Not that I know of, other than keeping fires out. The CHAIRMAN. There is not much effort made to keep fires out, is there?

Mr. Chisholm. We watch it pretty closely. You did not see a great deal of our country burned up here. The old cuttings are liable to burn at any time if we are not careful.

The CHAIRMAN. I did not see very much anywhere that has been cut over at any time that has not been burned some time since it

was cut over.

Mr. Ryan. In answer to a question a few moments ago you said that when the larger timber is cut out the smaller timber dies. Did you refer particularly to fire in that case?

Mr. Chisholm. No. Take the hard wood for instance, maple and

birch and basswood.

Mr. Ryan. That will die if the large timber is cut out? Mr. Chisholm. That is the history of our country here.

Mr. Ryan. If you cut out the large pine and leave the smaller

sizes, for instance, under 8 inches, that will thrive then?

Mr. Chisholm. Not necessarily all the time. You can cut up to a body of pine and the first thing you know in a year or two you will find dead trees around the outside. When you commence to disturb a bunch of timber, that which you leave standing you will find dead trees all the way around it.

Mr. RYAN. To what do you attribute that? Mr. Chisholm. I don't know why it is.

The CHAIRMAN. Do you think that the timber here is different from

what it is everywhere else in the country in that respect?

Mr. Chisholm. I have not been over a great deal of the country, only northern Minnesota and Michigan. I have never been out West.

Dempsey's Camp, near the Cloquet River. Northwest of Two Harbors, Minn., October 23, 1908—8 p. m.

# STATEMENT OF WILLIAM G. MEADE.

(Examined by the chairman.)

The CHAIRMAN. Give the stenographer your full name.

Mr. MEADE. William G. Meade.

The CHAIRMAN. What is your occupation?

Mr. MEADE. Estimator, cruiser.

The CHAIRMAN. What is a cruiser?

Mr. MEADE. A man that looks up timber and estimates timber.

The CHAIRMAN. How is that done?

Mr. Meade. It is done by locating where you are and the descriptions and going through and taking an average of the timber by the acre, what it runs.

The CHAIRMAN. You aim to get the quantity of timber on each

forty?

Mr. Meade. Yes, sir.

The CHAIRMAN. Who are you employed by now?

Mr. MEADE. Oliver Iron Mining Company.

The CHAIRMAN. Where are we located just now?

Mr. Meade. Section 5, town 56, range 10, State of Minnesota, Lake County.

The CHAIRMAN. At a lumber camp, put here by the Cook & O'Brien

Company?

Mr. Meade. Yes.

The CHAIRMAN. Now owned by whom?

Mr. Meade. The Oliver Iron Mining Company.

The CHAIRMAN. How far from the railroad are we—Duluth and Iron Range Road—from Brimson?

Mr. MEADE. About 15 to 18 miles.

The CHAIRMAN. On the Cloquet River?

Mr. MEADE. The Cloquet River is a little north of us here.

The CHAIRMAN. We walked over from Brimson this morning, or to-day, through the spruce forests and then after we got here, going on through the spruce forests. How does that forest average with the forests in this part of the State?

Mr. Meade. We came through a good deal of cuttings. There was not much timber until you get up to the camp four miles below.

The CHAIRMAN. A good deal has been burned over, I believe?

Mr. Meade. The timber, a good deal of it has been cut, and it was burned afterwards.

The CHAIRMAN. Before it was burned it was cut over?

Mr. Meade. Yes.

Mr. Ryan. Cut over for pine, was it?

Mr. Meade. For the timber that was on it.

The CHAIRMAN. The spruce wood was not cut out of it very largely, was it?

Mr. Meade. Yes; everything was cut that was on there.

The Chairman. We saw great tracts of land where the spruce timber was still standing and had been burned, I thought.

Mr. Meade. No; there are some cuttings over here that they left

the spruce timber on.
The CHAIRMAN. Who cut it over?

Mr. Meade. I suppose it was Cook & O'Brien. The CHAIRMAN. Did they cut out the pulp wood?

Mr. Meade. I don't know. They cut out some, I suppose. is some left.

Mr. RYAN. What spruce they did take out they evidently took it out for logs?

Mr. MEADE. I think so.

The CHAIRMAN. How does this spruce timber forest around here average with the spruce forests of this county?

Mr. Meade. It is a good average.

The CHAIRMAN. It is a little above the average, isn't it?

Mr. Meade. Not what I have been through.

The CHAIRMAN. Is not this exceptionally good spruce forest?

Mr. Meade. Yes; this part of Lake County is the only part of the county that I have been in. I do not know how it is farther east of here.

The CHAIRMAN. How far does this spruce forest extend, so far as vou know?

Mr. Meade. About 18 miles north and about 6 miles south of here that I have been through.

The CHAIRMAN. Do you know how far east and west?

Mr. Meade. No, sir; I know that it goes—I have been east of here 5 miles.

The CHAIRMAN. What is your estimate of the number of cords per acre it would yield of pulp wood?

Mr. MEADE. I could not give that—not on an average of the whole thing. I have not noticed it enough.

The CHAIRMAN. The spruce forest that we walked through near this camp this afternon, what would you say was the average there?

Mr. Meade. That would be pretty hard to give with the way I looked at it. I would not want to be quoted as giving an average

The CHAIRMAN. If you were going to estimate it, how would you go at it?

Mr. Meade. I would start in at some corner and estimate it by forties.

The CHAIRMAN. Count the trees?

Mr. Meade. Yes; I would average up the trees on certain parts

The CHAIRMAN. Have you any idea as to how much it would yield?

Mr. Meade. What I saw along where I came, I should judge it would average about 25 cords per acre.

The CHAIRMAN. Of spruce wood?

Mr. Meade. Yes.

The CHAIRMAN. What other trees grow here? Mr. Meade. Tamarack and balsam and poplar.

The CHAIRMAN. Any pine?

Mr. Meade. Some pine. We saw a few pine coming through.

The CHAIRMAN. Spruce comes first, does it?

Mr. Meade. Yes, sir. The Chairman. Tamarack second?

Mr. Meade. Yes, sir. The Chairman. Poplar and balsam third?

Mr. Meade. I should say balsam. The CHAIRMAN. Then poplar?

Mr. Meade. Yes.

Mr. Ryan. There was a good deal of birch, wasn't there?

Mr. Meade. There is quite a little birch along through here. think there is more birch than poplar.

The CHAIRMAN. We went over quite a number of roads that had

evidently been cut out for hauling timber to the river.

Mr. Meade. Yes.

The CHAIRMAN. But no timber has been cut out around here for logging purposes where we went through this afternoon?

Mr. Meade. Not where we went up in through here, no. The CHAIRMAN. That is what you call a virgin forest?

Mr. Meade. It has been cut in. There has not been anything cut, only logging roads in it.

The CHAIRMAN. How large are those trees on the average in your

opinion—the spruce trees?

Mr. Meade. They would run from 8 to 10 inches, I should judge, taking everything that would cut into pulp wood.

The CHAIRMAN. How high would they be, how tall?

Mr. Meade. Thirty-five to 40 feet, I guess.

The CHAIRMAN. Wouldn't they average more than that?

Mr. Meade. No, not taking the small stuff with the big stuff, I think.

The CHAIRMAN. Have you any idea as to how old they are?

Mr. Meade. No, sir.

The CHAIRMAN. How long have you been in this country?

Mr. Meade. In Minnesota since last February. The CHAIRMAN. Where did you come from?

Mr. Meade. Michigan.

The CHAIRMAN. Have you been a cruiser in Michigan?

Mr. Meade. Yes, sir.

The CHAIRMAN. In cruising there do you find very much spruce?

Mr. MEADE. Not so awful much. Mr. RYAN. What part of Michigan?

Mr. Meade. Northern Michigan, Gogebic County.

The CHAIRMAN. The spruce there is all scattered spruce, isn't it?

Mr. MEADE. Mostly.

The CHAIRMAN. You do not find much thick, clear spruce?

Mr. MEADE. In places you will find a good deal.

Mr. Ryan. What is the prevailing timber?

Mr. Meade. Hemlock and maple.

Mr. RYAN. The pine has been cut out?

Mr. MEADE. Yes, sir.

The CHAIRMAN. How much hemlock have you found in this State?

Mr. Meade. I haven't seen any. Mr. Ryan. The large spruce that we saw to-day in coming through

here; do you call that upland spruce?

Mr. MEADE. I do not know what you would call it. The land appears to me to be high, most of it, still I don't know whether you would call it upland or lowland.

The CHAIRMAN. It grows in rather swampy ground after all,

whether it is high or low.

Mr. Meade. I could not say it would be swampy. I would call it fair land.

The CHAIRMAN. Isn't the most of it pretty wet land?

Mr. Meade. No.

The Chairman. Wasn't it very wet where we walked this afternoon ?

Mr. Meade. In one place.

The CHAIRMAN. Wasn't the ground very wet and soggy all the way up?

Mr. Meade. Yes; right after the rain.

The CHAIRMAN. There has not been very much rain, has there?

Mr. Meade. Quite a good deal in the last few days.

Mr. Ryan. Has your experience been that spruce grows larger in the upland than in the swamps?

Mr. Meade. I suppose it would grow a little larger.

Mr. Ryan. Have you ever had any experience in regard to the effect on the timber from draining the swamp land; whether or not it affects the tree?

Mr. Meade. No.

The CHAIRMAN. Do they have any of what they call muskeg in Wisconsin?

Mr. Meade. In places; yes, sir.

The CHAIRMAN. Do they call it muskeg there?
Mr. Meade. No; I don't believe I ever heard it called that. We get low, swampy lands, though, and floating.

The CHAIRMAN. Have you had occasion to become very familiar

with the muskeg country over here?

Mr. Meade. Yes; I have been through some of it—not that I am familiar with it,

The CHAIRMAN. Is there much muskeg right around in this part of the country?

Mr. MEADE. No; not that I have seen.

Mr. Ryan. What about the forest fires that they have around this section of country? Will you tell us what you know about that?

Mr. MEADE. How do you mean?

Mr. Ryan. To what extent they have occurred.

Mr. Meade. I can not say. I don't know anything about that. I have not been over any of the burned timber to speak of.

The CHAIRMAN. You saw to-day quite a considerable territory that had been burned over in different places, didn't you?

Mr. Meade. Yes, sir.

The CHAIRMAN. Some of it with a good deal of spruce standing on it?

Mr. Meade. There was some spruce, not what I would call a great deal. There were some places where it burned in a little.

The CHAIRMAN. It looked to me like a very large amount. It is pretty thick over here.

Mr. Meade. In some places it ran in a little.

The CHAIRMAN. How far are we from Lake Superior?

Mr. MEADE. About 18 miles.

The CHAIRMAN. In what direction from Duluth?

Mr. MEADE. Northeast.

The CHAIRMAN. Would the pulp wood that would be cut here go to market through Duluth naturally?

Mr. Meade. I could not say.

The CHAIRMAN. What would be your judgment about it?

Mr. Meade. I suppose the railroad going to Duluth, that it would go that way. Still, I don't know. It could be taken out to the lake. The CHAIRMAN. Where?

Mr. Meade. Anywhere here with a track. Of course railroads are not in here now.

The CHAIRMAN. Are there any harbor facilities up along here?

Mr. Meade. Two Harbors is only about 18 miles south of where

The CHAIRMAN. It might be taken down to Two Harbors if they had a railroad running there?

Mr. Meade. Yes, sir.

The CHAIRMAN. Could it be taken down there by water transportation?

Mr. Meade. No.

The CHAIRMAN. Can you drive pulp spruce down these rivers here? Mr. Meade. Yes, sir; some of them. They are driving spruce on the Cloquet from the dam.

The CHAIRMAN. From the Brown camp, you mean?

Mr. Meade. Yes.

The CHAIRMAN. Where would that go to-down past Colquet?

Mr. Meade. Yes; they could drive it down. I have never been down the river, but I think they could drive it down there. They hoist it out at Brimson now. I guess they could drive it all the way. I have never been down through there.

Mr. Ryan. Quite a considerable portion of the timber is lost here

by forest fires, isn't it?

Mr. Meade. I don't know.

The CHAIRMAN. We saw, I believe, this morning a considerable quantity of logs in the Cloquet River at different points. Were those logs resting while being driven down the river?

Mr. Meade. I suppose so; yes, sir.

The CHAIRMAN. Do you know where they would be destined for naturally?

Mr. Meade. I suppose they go to Brimson. They are hoisting them

out of the river there now.

The CHAIRMAN. They have a station at Brimson where they load the logs onto the railroad cars?

Mr. MEADE. Yes, sir.

The CHAIRMAN. Were you with us when we saw that operation this morning, about 6 o'clock?

Mr. Meade. No.

The CHAIRMAN. Are you pretty familiar with spruce forest in Minnesota, or have you had time to become very familiar with it?

Mr. MEADE. No. Still I have seen enough of it since I have been

here. I have seen quite a lot of it.

The CHAIRMAN. Is it similar or generally different character from the spruce in Wisconsin?

Mr. Meade. No; it is not different that I know of; it runs about

the same character of spruce.

The CHAIRMAN. Did you see any spruce forest in Wisconsin simi-

lar to the spruce forest near here?

Mr. MEADE. Not as large an amount of spruce. What I mean is the spruce is about the same quality in Wisconsin as it is in Minnesota.

Mr. Ryan. The trees are not quite as large?

Mr. MEADE. There is not so much spruce in Wisconsin that I have seen.

The CHAIRMAN. Don't these spruce trees in Wisconsin that are scattered through the forest grow much more rapidly than those here?

Mr. MEADE. That I could not say.

The CHAIRMAN. You never have figured upon the comparative ages?

Mr. MEADE. No. sir.

The CHAIRMAN. Do you have any spruce forest in Wisconsin—any large number of acres in one place in the low ground?

Mr. Meade. Not that I have seen.

The CHAIRMAN. The testimony that has been given to us in Wisconsin is to the effect that the spruce there grows in the forest, scattered generally, and that there is not very much of it left. Do you think that is correct?

Mr. MEADE. I could not say. I have only been through the northern

part of Wisconsin. The lower part I do not know how it is.

The CHAIRMAN. This committee recently traveled through the northern part of Wisconsin and into the upper peninsula of Michigan looking for spruce forest, and that seemed to be the information we had. You get solid forest here in many places, don't you?

Mr. Meade. It is mixed; just as you have seen it to-day.

The CHAIRMAN. What proportion of the forest to-day in that that we went through last this afternoon would you say was spruce?

Mr. MEADE. I could not give you that.

The CHAIRMAN. Didn't you make us an estimate down there that the spruce would run 30 cords to the acre?

Mr. MEADE. What I saw of it in the places that you asked me.

The CHAIRMAN. Twenty to 25 cords to the acre?

Mr. Meade. Yes.

The CHAIRMAN. You made an estimate of 20 cords of spruce, 1 cord of balsam, and 6 of poplar.

Mr. MEADE. Tamarack. I did not give you poplar at all. That was only a rough estimate. I did not go through it.

The CHAIRMAN. It was your opinion that it would go in about those proportions?

Mr. MEADE. Yes.

The CHAIRMAN. In some places there is very little of anything but the clear spruce in spots?

Mr. MEADE. Yes.

The CHAIRMAN. Then you come to a spot where there is more tamarack?

Mr. Meade. Yes; I suppose there are places of that kind.

The CHAIRMAN. What is the general character of the timber along here, to the best of your opinion, and how does it run? What are the trees and what is the character of the ground that they are on?

Mr. Meade. I don't understand you.

The CHAIRMAN. If you were going to describe the forest to some one who knew nothing about this forest, what would you tell them that the forest was?

Mr. Meade. High or low or what?

The CHAIRMAN. High or low. Mr. MEADE. I would call this high ground.

The CHAIRMAN. What is the forest composed of?

Mr. MEADE. Spruce, tamarack, balsam, pine; in places birch and Poplar.
The Chairman. I would not know from that whether it was 90

Mr. MEADE. I could not say. Spruce runs the most on the average. The CHAIRMAN. Where does it generally grow, on the higher ground or the low ground?

Mr. Meade. It grows on both. Spruce will grow on low ground or

high ground.

The CHAIRMAN. It makes no distinction up here about the ground at all in your opinion?

Mr. MEADE. No; I don't think it does.

The CHAIRMAN. Just as likely to find spruce on the higher ground and pine on the lower ground?

Mr. MEADE. No; you find pine usually on high ground.

The CHAIRMAN. How about the tamarack and poplar; just as likely to find poplar on the low ground?

Mr. Meade. No; you usually find the poplar on high ground. The Chairman. Would you be more likely to find the tamarack

and the spruce on the wetter ground?

Mr. MEADE. No; I don't think it; from what I have seen of it, the spruce is scattered all over it. You will find some in low ground, but the best would be on what I would call high ground.

Mr. Ryan. You won't find much of anything on the lower swampy

ground except spruce, tamarack, and balsam?

Mr. Meade. No.

The CHAIRMAN. Did you see Mr. Norris examine a tree about 10 inches in diameter that had been cut down to-day for the purpose of trying to find out its age?

Mr. MEADE. Yes, sir.

The CHAIRMAN. Did you hear him state, after counting the rings, that it was over a hundred years old?

Mr. Meade. Yes.

The CHAIRMAN. Have you ever examined the rings on these trees to see how old they are?

Mr. MEADE. No. sir.

Mr. Ryan. Do you think that the age of a tree can be determined in that manner?

Mr. MEADE. I don't know.

The CHAIRMAN. I wish to extend to you the unanimous thanks of this committee and all of its attachés.

## STATEMENT OF THOMAS McGREGOR.

(Sworn and examined by the chairman.)

The CHAIRMAN. Give us your full name.

Mr. McGregor. Thomas McGregor.
The CHAIRMAN. How long have you been in Minnesota?

Mr. McGregor. About five years. The CHAIRMAN. In the woods?

Mr. McGregor. Yes, sir.

The CHAIRMAN. Are you familiar with the forests?

Mr. McGregor. No; I can not say that I am. I have been around a considerable, too.

The CHAIRMAN. Have you been around this part of the country? Mr. McGregor. No, sir; I never was up in this part before. The biggest part of my travels in the woods have been in St. Louis County.

The CHAIRMAN. Have you been a cruiser?

Mr. McGregor. Well, I don't know as you could call me a cruiser. I have been out with cruisers.

The CHAIRMAN. Have you been connected with lumber camps?

Mr. McGregor. I have been cooking around lumber camps; not much outside work.

The CHAIRMAN. Have you been around with cruisers? Mr. McGregor. I have for the last year; yes, sir.

The CHAIRMAN. Where?

Mr. McGregor. In St. Louis County.

The CHAIRMAN. Are you familiar also with the trees?

Mr. McGregor. Yes, sir.
The Chairman. You can tell a spruce tree from a poplar?
Mr. McGregor. Yes, sir.

The CHAIRMAN. Or a balsam?

Mr. McGregor. Yes, sir.

The CHAIRMAN. What is the prevailing timber over there in the forest?

Mr. McGregor. I should say, where I have been, it is pine. The Chairman. White or Norway or jack?
Mr. McGregor. I could not say as to that, but there is a great deal of white and some Norway.

The Chairman. Is there more or less spruce scattered all over that forest?

Mr. McGregor. Yes, sir.

The CHAIRMAN. Large spruce or small stuff?
Mr. McGregor. I have seen some pretty large; I have seen it 18 inches through or larger.

# STATEMENT OF CHARLES B. CANNON, OF BRIMSON.

(Sworn and examined by the chairman.)

The CHAIRMAN. How long have you been up in this country?

Mr. Cannon. I was born and raised in Duluth. Twenty years old.

The CHAIRMAN. How long have you been acquainted with the forests?

Mr. Cannon. A year and a half.

The CHAIRMAN. What do you do in connection with the lumbering operations?

Mr. Cannon. I have been connected with the timber department

of this company as a clerk.

The CHAIRMAN. With the Duluth and Iron Range Company?

Mr. CANNON. The Oliver Iron Mining Company.

The CHAIRMAN. How long?

Mr. CANNON. I worked four months in the surveying department, and for a year I have been connected with the timber department.

The CHAIRMAN. What does that department do?

Mr. Cannon. Attends to the cutting of the timber for the Oliver Company.

The CHAIRMAN. That is the cutting of the timber? Do they keep

track of the timber that is not to be cut?

Mr. Cannon. They have lands that are plotted that they have not cut yet.

The Chairman. Are they cutting any timber themselves?

Mr. Cannon. Carrying on small operations at Colrain.

The CHAIRMAN. Do they sell stumpage at all?

Mr. Cannon. I don't know.

The CHAIRMAN. Are they holding most of their timber at present?

Mr. Cannon. Yes. sir.

The CHAIRMAN. For possible use in connection with the iron mining business?

Mr. Cannon. Most likely; yes, sir.

The CHAIRMAN. That is to say, they are not absolutely certain but that they may need this timber in connection with the mining?

Mr. Cannon. Yes, sir.

The CHAIRMAN. And in connection with harbor facilities, etc. ?

Mr. Cannon. Yes, sir.

Mr. Ryan. What sort of timber are they cutting at Colrain?

Mr. Cannon. Mining timber.

The CHAIRMAN. Where is Colrain?

Mr. Cannon. Up on the range.

Mr. Ryan. They do not get out any timber for pulp wood?

Mr. Cannon. No, sir.

The CHAIRMAN. We saw a considerable number of logs in the Cloquet River this morning. Do they belong to the Oliver Mining Company?

Mr. Cannon. Yes, sir.

The CHAIRMAN. Were they cut by the Oliver Mining Company, do you know, or by the Cook & O'Brien Company?

Mr. Cannon. By the Cook & O'Brien Company, so far as I know.

The CHAIRMAN. Do you know how long the Oliver Mining Company has owned this ground around here that was formerly owned by the Cook & O'Brien Company?

Mr. Cannon. No, sir.
The Chairman. You know something about it, don't you?

Mr. Cannon. So far as I know, they have owned it for about two vears.

The CHAIRMAN. Do you know how much timber land they are sup-

posed to own?

Mr. Cannon. No, sir.

The CHAIRMAN. Do you know how much they bought from the Cook & O'Brien Company?

Mr. Cannon. No, sir.

The CHAIRMAN. Do you have any idea?

Mr. Cannon. No; I have never had an opportunity to know and never tried to find out.

St. Paul, Minn., Monday, October 26, 1908-10 a.m.

# STATEMENT OF FREDERICK W. WEYERHAEUSER, OF ST PAUL, MINN.

(Examined by the chairman.)

The CHAIRMAN. We are a committee appointed by the House of Representatives for the purpose of investigating in regard to the present and future of pulp paper, including in its relations the situation concerning the forests and the future supply of pulp wood. We have been told by a great many people both in the East and the West that probably there was no man in the country whose judgment would be worth more than yours, and we would like to hear your impressions as to the subject.

Mr. Weyerhaeuser. I do not know any more about the timber

country than those men that travel around there.

The CHAIRMAN. You speak with modesty, but we would like to have your impressions, as far as you can give them, for the benefit of the present and succeeding generations, of the forestry conditions.

Mr. WEYERHAEUSER. Pulp wood I could not tell you much about because I never looked after that much of any. There is lots of pulp wood. How much there is has never been estimated by us. I have heard a good deal about it. They are paying us now a small amount per cord for it, if it is handy to get out. If it was hard to get out they would not give us much of anything. I don't know what you mean by pulp wood. If you mean the dry timber which is standing which can be used for pulp, that is one thing. If you mean that which is growing, I can not tell you much about it. I can tell you this, there is very much more timber than folks have an idea of and it will last longer. When I commenced lumbering fifty-two years ago I went up on the Black River, a stream that flows into the Mississippi at La Crosse. I was manufacturing at La Crosse. Some men that were in the business for years asked me where I expected to get my supply. I told them I expected to get it on the Black River. They said, no, the Black River is ausgespielt, played out. We were taking about 40,000,000 feet a year on Black River, and then increased

it to 200,000,000 a year. That is fifty-two years ago. We are getting logs out of Black River yet, a few. According to the common report we never had timber enough to last eleven years, and it would all be cut in ten years. You ask a man how long the timber would last and he would say ten years. It depends on what kind of timber you cut. We did not use to take any but that that was 16 inches at the top and sound, and now we are taking 6 inches at the top and some 4 inches. Timber has increased wonderfully and keeps increasing as it gets valuable. You make it valuable and it will last a long while, but make it cheap and we will get through with it sooner. There is lots more timber than people think.

The CHAIRMAN. You say you cut so much in the Black River territory at one time and are cutting some there now. I suppose, very

little now.

Mr. Weyerhaeuser. This last year, I guess, we did not do anything. There has always been a few logs coming out of Black River. We increased the cut from 40,000,000 to 200,000,000.

The CHAIRMAN. In course of time it will all be cut off.

Mr. WEYERHAEUSER. Yes; every time you cut a tree down there is a tree less.

The CHAIRMAN. What we want to do, if possible—and I do not know that it is possible—is to find some plan that we can recommend

that will provide timber for the future.

Mr. WEYERHAEUSER. The main thing is to make laws to prevent the fires. I have been reading about California and Washington. We suffered but very little there, and see how timber has been burned this last year in Wisconsin and Minnesota and within the last eight weeks.

The CHAIRMAN. We went through in Wisconsin over a hundred

miles of burned forest.

Mr. Weyerhaeuser. You have an idea, then, what it means when a forest is on fire. The only way to prevent it is to cut all the dead trees down. It is the standing tree that scatters the fire. It gets on fire on top and the wind blows it 5 or 6 or 7 miles. After the trees are cut down and they are lying on the ground they make some fire, but not much. If the trees are standing they scatter fire everywhere. Then make a law that each one shall burn his rubbish before it gets dry. There will be pieces left like my arm, but they won't burn; they don't make much fire. It is pretty hard for one man to do. If one does it and the other does not, it doesn't do much good.

The CHAIRMAN. Do you think it is possible for the owners to protect the forests from fire without the aid of the State or Government?

Mr. Weyerhaeuser. The State ought to help and ought to make laws for it. We would have raised some timber or tried to raise it, but a man can not do it on account of the taxes. It takes two hundred years to raise a good pine tree. You can raise a white pine tree in eighty years that is merchantable, but full grown it takes about two hundred years. The way they are taxing us, we can not do it. We have to pay taxes every year on our full crop. We pay taxes on the land and then pay for the standing timber, and you can not pay that more than fifty or sixty times during your lifetime, can you? A farmer has an acre of wheat, he pays what his land is worth. He is not taxed for that wheat. When he sows it in April and May, it isn't worth much. He pays on the land. The lumberman pays taxes on his timber every year, besides on the value of the land.

The CHAIRMAN. Have you any idea as to what the taxes run per acre in this State on good forest land?

Mr. WEYERHAEUSER. Yes; I would say on timber that has not been logged over \$5 or \$6 or \$10 in some counties an acre.

Mr. Ryan. An acre?

Mr. Weyerhaeuser. Yes.

Mr. RYAN. That is in addition to the land tax?

Mr. Weyerhaeuser. That is included with it. And the taxes are governed largely by the local people. We had school districts where there were but two scholars, but we had to build a schoolhouse and keep the school up for two children. We could have sent them to Chicago and boarded them at the best hotel for the same money.

The CHAIRMAN. If some satisfactory law could be passed in reference to taxes and in reference to fire protection, do you think that the owners of a good deal of this forest land that is not valuable for

farming would endeavor to reforest it?

Mr. Weyerhaeuser. Yes; we have been giving some land away to the State of Wisconsin and to other States. I do not know whether we have given this State much or not. We have given it or promised it. In place of giving it away we would try to see if we could not raise trees as well as the State, if we could. We give it for park purposes.

The CHAIRMAN. That means to raise forests?

Mr. WEYERHAEUSER. Yes; that is what we give it to them for, for park purposes. If they do not use it for that, it comes back to us.

The CHAIRMAN. In some of the eastern portions of the country, when they cut trees, they only cut large trees and leave the others to

grow larger.

Mr. Weyerhaeuser. That is true. We used to do that, but how long does it take until a fire comes in and they are gone. We had this last month which we know of, and how much more we do not know of, over 12,000 acres burned, what we call green timber.

The CHAIRMAN. Where was that? Mr. WEYERHAEUSER. In Wisconsin.

Mr. Ryan. Did the green timber burn up there?

Mr. WEYERHAEUSER. Yes, sir; that is the report we are getting

now. That was near Phillips.

The CHAIRMAN. If you had sufficient fire protection, as good in the forest as you have in the city here, do you think that owners then could afford to cut only the larger timber and let the smaller sized

timber stay there to grow?

Mr. Weyerhaeuser. I am afraid of that. We never can get it as good as we get it in the city. All we could do is to make fire paths through the timber so that we could get there quick and probably could put it out, but we could not get it so that we would have water. This year there wasn't any water to put a fire out with. It has been very dry until lately. If the State taxes were fixed so that the timber would not have to pay anything for ten, twenty, thirty, or forty years, until it has a value, and then put a good tax on it, men would rather raise timber. If you have to pay taxes right now and you know you have got to wait eighty years before you get anything, you wouldn't put your money into it.

The CHAIRMAN. Do you think the State could afford to buy a lot of

this land and make forest of it?

Mr. WEYERHAEUSER. They won't do it.

The CHAIRMAN. What will we do after a while? You say there is lots of timber, and yet a hundred years is only a short time, you know.

Mr. WEYERHAEUSER. That is right.

The CHAIRMAN. You have seen a large share of the forest disappear since you came on the face of the earth.

Mr. Weyerhaeuser. Yes; I have been at it fifty-two years. The CHAIRMAN. What will they do for timber after a while?

Mr. WEYERHAEUSER. Have you ever seen that when one thing disappears something else is substituted? I have traveled through Germany and France and some of those countries, and when I looked out of the car window I have thought I was up in Chippewa in the pines. They have been raising it there. The Government contends that when you cut a tree down you should plant another tree. A forester comes around and tells you how to cut the tree and what kind of logs to make out of it, and you take it to a sawmill and get it sawed there and they know how.

Mr. Ryan. There is not so much waste there?

Mr. WEYERHAEUSER. No; no waste at all.

Mr. Ryan. Is that the law in France?

Mr. WEYERHAEUSER. I wouldn't say. It is in Germany. The chips and roots are all gathered up. When you go through the forest it is iust as clean as can be, because the limbs that break off the poor folks take home and burn.

Mr. Ryan. Isn't that because the timber is scarce and that makes it valuable, and that is why they take such extraordinary precautions? Mr. WEYERHAEUSER. Yes, and labor is cheap. That has something

to do with it.

The CHAIRMAN. You have doubtless thought the matter over a good many times in a way. What has your opinion been as to the future of the forests of this country?

Mr. WEYERHAEUSER. I think we ought to protect the forests. We ought to save the timber. There is no question about it. But a thing is never saved until it has a good value. Pulp wood nobody thought of saving, because it has not had any value so far.

The CHAIRMAN. Pulp wood has been selling in Minnesota, as a rule for the last year, for about \$6, six and a quarter a cord, and down in

Wisconsin spruce pulp wood is \$11 a cord, owing to the freight.

Mr. WEYERHAEUSER. What does that give the man who gets it out? The CHAIRMAN. Eleven dollars a cord pays him a mighty high price.

Mr. WEYERHAEUSER. The one that cuts it gets six.

The CHAIRMAN. That is different. But down there it is eleven. If the man had it there, he could get eleven for it there.

Mr. WEYERHAEUSER. If he would get it to the pulp-wood mills.

The CHAIRMAN. Pulp wood will not be as high in the next year in my opinion as it has been for the last year, because the mills are all stocked up heavily with pulp wood.

Mr. WEYERHAEUSER. If anybody wants to cut pulp wood, we tell them we charge so much, say a dollar or two a cord, and they go in

and work until they get tired.

The CHAIRMAN. These Wisconsin mills over a year ago paid \$14 a cord for pulp wood.

Mr. WEYERHAEUSER. That is only lately.

The CHAIRMAN. That is when they bought 50,000 cords down in Quebec, 1.400 miles away, and had to freight it to their Wisconsin mills; but that shows, does it not, that pulp wood is increasing in value at the centers where it is used?

Mr. Weyerhaeuser. Yes.

The CHAIRMAN. And is likely to increase as the quantity becomes

Mr. WEYERHAEUSER. Yes; you can raise spruce in about twenty

You get a pretty fair tree at twenty or twenty-five years.

The CHAIRMAN. Not up here. We have been taking the age of trees, and I have one an inch in diameter that is fifty years old, another 10 inches just about a hundred years.

Mr. WEYERHAEUSER. I can not understand that. You may have it. The CHAIRMAN. We are collecting samples of all of these spruce trees for the purpose of determining their ages, and on the high land the spruce grows much more rapidly.

Mr. Weyerhaeuser. Oh, ves.

The CHAIRMAN. But a large share of the Minnesota forests are on the low ground.
Mr. WEYERHAEUSER. That never amounts to anything.

The CHAIRMAN. We find that it gets to be 4 and 5 and 6 inches in

diameter very often in a hundred years.

Mr. Weyerhaeuser. You take a spruce tree where everything is favorable for it and it makes quite a tree in from twenty to twentyfive years.

The CHAIRMAN. That would be a reforesting then, because spruce

can be used, of course, when it is not very large.

Mr. WEYERHAEUSER. For pulp wood, yes.

The CHAIRMAN. Five-inch pulp wood is a good size.

Mr. Weyerhaeuser. Yes.

Mr. Ryan. You think, under favorable conditions, you could raise a spruce forest in twenty-five years?

Mr. WEYERHAEUSER. I always had an idea it would make quite

a tree in twenty-five years.

Mr. Ryan. About how large?

Mr. Weyerhaeuser. I would say it would make 5 or 6 inches or 8 inches. That is all you want for pulp.

The CHAIRMAN. In twenty-five or thirty years, probably, then it

could be taken out in part, the larger trees cut out?

Mr. WEYERHAEUSER. Yes; that was my idea all the time. If I was raising anything at all I would raise spruce. I would not try to raise pine because it takes too long.

The CHAIRMAN. Isn't there a good deal of this land up here that is so rocky that it is not worth much of anything except to grow

forests?

Mr. Weyerhaeuser. Yes, sir.

The CHAIRMAN. If the State had that or if the State would protect the private owner, some one could afford probably to grow spruce on

Mr. WEYERHAEUSER. Yes; we have some land which we will sell for \$2 an acre, and it will raise pretty good timber. It is either stony or sandy, not good for farming.

The CHAIRMAN. Of course, there is an immense stock of timber in the far west.

Mr. Weyerhaeuser. Yes; that is where I have been thinking our timber would come from in the future. It is coming from there now.

The CHAIRMAN. But when the whole country gets to using that

timber, won't that go pretty fast?

Mr. Weyerhaeuser. It would, providing timber was not worth more than it is now. When timber is worth more money they will save it. You see that concrete and iron takes the place of timber a great deal.

The CHAIRMAN. But the population is increasing also.

Mr. WEYERHAEUSER. Yes, that is right. You have got to have a crib for everyone that is born and a box when you carry him out.

The CHAIRMAN. What proportion of the white pine of the country do you think has been already cut-of all the white pine in the

country?

Mr. WEYERHAEUSER. Probably 80 per cent. There is a good deal of white pine left in Idaho and those places. I know when I lived in Pennsylvania we cut down the finest kind of trees, oak and chestnut and some pine, not much pine, and we would make a rolling bee and roll out the logs in piles and set fire to them and burn them up to get rid of them. It was awful mean, and we ought to have been punished for it, but we had to have a patch for crops. We sold the ashes and got something for them.

The CHAIRMAN. That would be done again if the same conditions

existed.

Mr. Weyerhaeuser. Yes; you have to take the young timber into consideration. It is very careless the way timber is burned up.

The CHAIRMAN. Are you familiar with the Canadian forests? Mr. WEYERHAEUSER. I have been there some, yes; I could not say a great deal about it. There is lots of timber in Canada.

The CHAIRMAN. Does the timber grow pretty well far north and

grow to good size?

Mr. Weyerhaeuser. Yes, as far as I went. It grows slow. The farther north the slower it grows. The forests in the north look healthy and all right. Washington and Oregon is where our timber is to come from, and Idaho has a good deal of timber.

The CHAIRMAN. Is there a good deal of timber in the Panhandle

in Idaho?

Mr. Weyerhaeuser. Yes: first-rate timber.

The CHAIRMAN. Is there much spruce out there?

Mr. WEYERHAEUSER. No; not that I know of. There is some, not a great deal. Where the fires have gone over, there is lots of lumber killed that will make pulp for a few years until it is rotten.

The CHAIRMAN. That is over in Wisconsin?

Mr. Weyerhaeuser. Yes, sir.

The CHAIRMAN. Is that likely to be cut for wood pulp?

Mr. WEYERHAEUSER. I guess they cut all they can for saw logs, and what is left they cut for pulp wood. Pulp wood is a good deal like other crops; they all go in and make it and there is no value to it. Then comes a year when they don't produce any and the value is very high.

The CHAIRMAN. Do you have any idea as to what the effect will be

of draining off the swamps in Minnesota?

Mr. WEYERHAEUSER. Yes; it will be all right. That will help timber and everything else.

The CHAIRMAN. You think that will do the timber good? Mr. WEYERHAEUSER. Yes; get the water away from it.

The CHAIRMAN. Some of the gentlemen whom we have seen have

thought it might hurt the timber.

Mr. WEYERHAEUSER. Cypress it might, but I don't think it would hurt anything that grows up here. Even water elm grows better when it is not wet all the time.

Mr. Ryan. Do you think the spruce and pulp wood that is now growing in the swamp land would do better if the swamps were

drained?

Mr. WEYERHAEUSER. It depends on what is under the swamp. If it is rock it would not. If it is good soil it would. Some of the swamps have nothing but rock under them when you get into them.

The CHAIRMAN. That is some of the so-called muskeg?

Mr. WEYERHAEUSER. Yes; I think it would help the timber.

The CHAIRMAN. On some of the muskeg we find in the center no timber at all, and then a little farther around some very small spruce, and then farther around some 4 to 6 inch spruce, and then on the higher ground larger spruce, and all intermixed with tamarack.

Mr. WEYERHAEUSER. You will find the timber is better where there is no water standing. Where there is standing water you can

not raise timber. I think it would do it good to drain it.

The CHAIRMAN. That land that is good to raise grass on or crops

on never will be profitable to raise forest on, I suppose.

Mr. Weyerhaeuser. I don't know; it depends on what the lumber is bringing. If you keep lumber cheap it won't be worth much, but when lumber gets high, like last year and year before last, you can raise timber, if I am right that you can raise good spruce in twenty-five years. I may be mistaken about that. I never tried it. It is my idea that twenty to twenty-five years would make a fair spruce tree.

The CHAIRMAN. Some of the people who have been before us have thought they could raise good spruce in twenty to thirty years for

pulp wood.

Mr. Weyerhaeuser. Yes; we have trees from the South which are not more than 25 years old, about 14 inches through, which grew where they had been building railroads before the war, where there was a grade, and the railroad never was finished. We know there was not any timber standing there, and we are cutting pretty good-sized timber off of the right of way. It pays better to raise timber in the South than in the North. A tree will grow the year around except when it is very dry. Here it is only about six or seven months that a tree will grow.

The CHAIRMAN. There is not much spruce in the South, I suppose. Mr. WEYERHAEUSER. No; there is not. It is yellow pine. It is

good timber.

The CHAIRMAN. That long-leaved pine makes a great timber, and

so does the loblolly pine.

Mr. WEYERHAEUSER. Yes; the short-leaved is the best for boards. For timber the long-leaved would be the best.

The CHAIRMAN. There is a good deal of timber left in the South,

I suppose.

Mr. Weyerhaeuser. Yes: lots of it.

The CHAIRMAN. Is there much hard-wood timber up in the northern country, outside of birch and poplar?

Mr. WEYERHAEUSER. No, sir; there is not.

The CHAIRMAN. Any real hard wood? Mr. Weyerhaeuser. We have pretty fair oak in Wisconsin, "blue oak," we call it. It has been prefty well cut. The brewers cut them to make staves.

The CHAIRMAN. That is pretty well gone? Mr. WEYERHAEUSER. Pretty well gone.

The CHAIRMAN. How about the hard maple in Wisconsin?

Mr. WEYERHAEUSER. I guess there is some of that that is pretty fair. As a general thing, the maple in Wisconsin was real rotten. When you get in Michigan you find good maple. I know I have been in a sawmill in Wisconsin 150 miles from here and thought I could saw maple for flooring. When we came to log it, there wasn't much in it. We had a mine in Michigan and had to have fuel to keep the furnace going, and we used that.

The CHAIRMAN. Where do they make the hard-wood flooring now? Mr. WEYERHAEUSER. Make it mostly out of maple in Michigan; some in Wisconsin, but not much. We had fine oak in Wisconsin, but that is pretty well cut where they could get to it. The hard wood in Wisconsin is much better than farther south.

Mr. RYAN. Where do they get the supply of what they call " north-

ern white oak" that they make barrel staves from?

Mr. WEYERHAEUSER. In Wisconsin.

Mr. RYAN. There is a lot there now, is there?

Mr. WEYERHAEUSER. No; not now. Wherever the country was open the brewery men would go in and cut it to make staves.

Mr. RYAN. Where will they have to go for their supply?

Mr. WEYERHAEUSER. I don't know; I guess they get it from the

Mr. RYAN. They have cut some in the South?

Mr. Weyerhaeuser. Yes.

The CHAIRMAN. Arkansas and Louisiana?

Mr. WEYERHAEUSER. Yes; and Mississippi has a good deal. I had a letter from there this morning. A fellow has a sawmill down there and he tells me there is splendid timber. If we want to raise oak trees we have to have five hundred years, so we won't raise many.

The CHAIRMAN. Do you think it is time that the Government took

hold of the question, preparing for the future?

Mr. WEYERHAEUSER. Yes; I think it is. It ought to have been done long ago. The people will take care of it who own it when it is worth something. When you can buy stumpage for 50 or 75 cents, a tree is not worth much. When you have to pay about \$5 for stumpage it is worth something. See how much timber was burned in the South before it got to be worth something. As soon as timber gets to be worth anything they take care of it. It is just like owning a horse. If you have a valuable horse you take care of it, and if it is a scrub you don't care much about it.

The CHAIRMAN. If every farmer has potatoes, potatoes are very cheap; but it don't do on that account not to plant potatoes next year.

Mr. WEYERHAEUSER. No. I know when we have had to pay something to get them carried out of the cellar in the spring. It is the same thing with lumber. They are taking pretty good care of the stumpage now.

The CHAIRMAN. We have seen an immense quantity of stuff lying on the ground and another immense quantity standing that was killed

by the fire.

Mr. WEYERHAEUSER. Yes; certainly, that is true. What you see above the ground that has been cut down, there was not enough in it for a man to haul it out. We used to take logs which had 45 or 50 per cent merchantable in them, and finally we made our contracts 25 per cent merchantable, and I guess now we take what is 15 per cent merchantable. A man will not bother to haul logs out except he gets something for it. If you have to haul 900 feet and only have 100 of it merchantable, it don't pay you. The higher lumber comes the nearer it comes to paying. Then shingles are very cheap. There is no money in shingles. We used to take that stuff to make shingles out of, but there is nothing in it now. They make them too cheap.

Mr. RYAN. They come from the State of Washington?

Mr. Weyerhaeuser. Yes, sir; California makes some shingles. The Chairman. They are cutting down the great trees in Califor-

nia that have grown, maybe several thousand years.

Mr. WEYERHAEUSER. Yes; I do not see what they will do with them after they cut them down. I hope they won't cut down those nice trees. I know when I was over there I saw one—in the Yosemite, I think it was, or close by—a great big tree, and in one end of it was a hotel and in the other end a barn. You drive in with a yoke of oxen. I went through some of those trees with a couple of friends of mine on horseback, three abreast—go right through the tree. The fire had burned out a good deal of it, and the balance was cut out with an ax. How to make lumber out of that I don't know. We couldn't do it. Our machinery would not do it. I don't think those trees will be cut down, because when you look at them you think they are mountains. A fellow from Duluth bought them. What he bought them for I don't know.

The CHAIRMAN. Do you care to express any opinion as to the length of time it will take to eat up the Minnesota forest at the pres-

ent rate?

Mr. WEYERHAEUSER. We have probably 15,000,000,000 of timber yet, and when we cut less than a million in the State it is very little. Last year they cut, I think, 800,000,000. I guess they cut, of pine, 800,000.000. What they cut of other woods I do not know.

Mr. RYAN. That is the total cutting?

Mr. Weyerhaeuser. Yes, sir. In the last year 800,000,000 of pine. I would say Wisconsin has probably timber for about fifteen years in that way. Of course that won't supply the State. They are always finding a little more. They think it is no good, but, come to see it again, they think they had better cut it down anyhow. So we always get a little more. So far as an estimate goes, you can not make one. As I told you, on Black River we were cutting only about forty millions a year and then brought it up to two hundred and fifty millions, and have been doing it fifty years, and some fellows go in there now and get a little out.

Mr. Ryan. That has always been a large pine territory?

Mr. WEYERHAEUSER. Black River has 28 townships of pine and Chippewa River had 88; that is, tributary to the stream. That

is what we used to go by. When the railroads came in they carried off a great deal of timber and destroyed more from the fire than they carried off. Our timber would have lasted much longer if it had not been for the railroads. As long as we had to haul it to the streams 6 or 8 miles it was pretty expensive.

The CHAIRMAN. If we could have some law which could be enforced which would prevent railroad fires, would that be a great protection?

Mr. WEYERHAEUSER. Oh, yes; and the settler is careless. He gets up in the morning and has a little burning to do and that sets a fire, and he does not care about the next fellow, and the first thing the fire is running.

The CHAIRMAN. He would like to have the timber cleared off.

wouldn't he?

Mr. WEYERHAEUSER. He would like to have his place cleared off from the brush. I don't know as he cares much about the next fellow.

The CHAIRMAN. Wouldn't he like neighbors?

Mr. Weyerhaeuser. Some men like neighbors and others do not. I have sometimes in a new country found a fellow who wanted to sell out. I said, "What do you want to sell out for?" "Well, there are so many coming in here I don't like it; I am going to pull out." The State could help a great deal by reducing taxes on land which should be used for the purpose of raising timber or letting them have it without taxes, and the Government could do a good deal by enforcing laws. I have a letter from our man in Washington. It seems that they had hardly any fire there this year. Some six years ago we lost over a billion in one fire.

The CHAIRMAN. Of course, the trouble about doing away with taxes is that each local community has to have some money from taxation.

Mr. WEYERHAEUSER. That is right.

The CHAIRMAN. How would it be if the General Government should pay a bounty of so much per acre per year in the form of taxes to the local government to those who will raise forests?

Mr. WEYERHAEUSER. That would be all right on spruce until it

gets to be 15 or 20 years old, and on pine give them 40 years.

The CHAIRMAN. Until, say, it would get large enough for the forestry department to say that it was time to cut it?
Mr. WEYERHAEUSER. That would be splendid.

The CHAIRMAN. The raising of timber for the future is necessary, not merely for the man who raises it, but for the people generally.

Mr. WEYERHAEUSER. Yes; there are not a great many who care for the people who are to come afterwards. Some do. As a general thing, the farmer won't care much about what comes after him.

The CHAIRMAN. The Government should care.

Mr. Weyerhaeuser. Well, the Government might do it.

The CHAIRMAN. Of course, I do not undertake to say whether it

could or not. That is the question.

Mr. Weyerhaeuser. Let the Government buy the land at \$2.50 an acre, and the State should buy some and try and raise forests. In nearly all the old countries the forest is owned by the Government. That goes back many hundred years. The forest belonged to the state and a man could cut so much a year. The government had charge of it. That goes back probably a thousand years.

The CHAIRMAN. Suppose the General Government should undertake to buy a lot of the timber land up here which has been cut over, don't you suppose the price would be put up pretty high at once?

Mr. WEYERHAEUSER. Yes, they could make a price; say, the highest they would pay would be \$2.50 an acre. I guess they could get lots

of land for two and a half an acre.

The CHAIRMAN. If the Government should undertake to raise a forest, would it be necessary to have large tracts or could it just as

well be done in smaller pieces?

Mr. Weyerhaeuser. It would be in large tracts because it would be easier to take care of it. I had a friend here who traveled in the forest up here. He came from somewhere in Austria. He had a sawmill over there. He cut 50,000,000 feet and shipped it all over the country, and he told me he had land enough so he could cut 50,000,000 feet a year, and that supplied his mill. It was where there was a good deal of rainfall.

Mr. Ryan. The forest would reproduce itself?

Mr. WEYERHAEUSER. Yes; he told me he was planting a good

many. I think he paid a half a cent a tree to plant them.

The CHAIRMAN. Stick them in the ground behind a spade, I suppose?

Mr. Weyerhaeuser. Yes.

The CHAIRMAN. I have done lots of it myself.

Mr. Weyerhaeuser. I guess there is a great deal of that done in Norway and Sweden.

The CHAIRMAN. Does our spruce here grow as fast as the Norway

spruce?

Mr. Weyerhaeuser. I think it does, where it is favorably located. I do not know why it should not. Everything else grows as well here as anywhere.

The CHAIRMAN. I mean the species. The Norway spruce is a different species from our spruce. When I was a boy we used to think the Norway spruce was a better tree than the American white spruce.

Mr. WEYERHAEUSER. I guess it is. It may be firmer. I am not

personally acquainted with it.

The CHAIRMAN. Is there any effort made by any of the timber owners up here now to save the timber where they have cut over—save what is left?

Mr. Weyerhaeuser. Yes; where we have what we call green timber—where the fire has not gone through—we take care of that. Where the fire has killed it off we let it go; sell it for what we can get for it.

Mr. Ryan. You aim to cut it very clean when you cut through it

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Mr. WEYERHAEUSER. We thought we cut it pretty clean, but found out we did not. The value has something to do with it. When we see a tree and think there is \$5 in that tree, or two or three, we take care of it. If we think it isn't worth anything, we let it go.

Mr. Ryan. You do not figure that it is worth \$5 now and may be

worth ten in a few years?

Mr. WEYERHAEUSER. No; we take it down.

The CHAIRMAN. If it is worth anything you take it?

Mr. WEYERHAEUSER. Yes; if it is worth hauling.

The CHAIRMAN. That is because you are afraid if you leave it there it will burn?

Mr. Weyerhaeuser. Yes; almost sure it will, some time or another. The last few years we have been logging, if we had timber adjoining timber that we had cut we would go and set fire to it as soon as the snow was gone, and the fires did not bother us much afterwards.

The CHAIRMAN. You would burn the slashings when they were

green?

Mr. WEYERHAEUSER. Yes; and the Government has taught us how to do it. We have been buying some timber of the Government. They put in the contract that we have got to burn our slashings every year. It costs some money.

The Chairman. Where you cut that Government timber do you

cut that clean?

Mr. WEYERHAEUSER. No; we leave so many trees to the acre for seed. They have men in there to look after it. Where they tell us to leave a seed tree we leave it.

The CHAIRMAN. That is in pine? Mr. WEYERHAEUSER. Yes.

The CHAIRMAN. The Government forester selects the trees you are to leave?

Mr. Weyerhaeuser. Yes.

The CHAIRMAN. That is in the Indian reservations?

Mr. WEYERHAEUSER. Yes.

The Chairman. Where they do that they figure, I suppose, upon taking care of it from fire.
Mr. Weyerhaeuser. Oh, yes, sir.

The CHAIRMAN. But there is no use leaving any white pine unless you keep fire out.
Mr. WEYERHAEUSER. No.

The CHAIRMAN. Are you familiar with the Menominee Indian Reservation in Wisconsin?

Mr. WEYERHAEUSER. No, sir; that is in the eastern part, where the Government has been building a sawmill.

The CHAIRMAN. Yes.

Mr. WEYERHAEUSER. No; I am not.

The CHAIRMAN. They are going to try an experiment over there.

Mr. Weyerhaeuser. Yes.

The CHAIRMAN. I tried to stop it, but finally I quit by having them change a lot of things in it.

Mr. WEYERHAEUSER. If they have the right kind of Indians there,

all right. If the Indians are Indians, there will be fires.

The CHAIRMAN. That is an experiment being made by the Government, principally to instruct the white man at the expense of the Indians, isn't it?

Mr. Weyerhaeuser. I don't know. We tried to get Indians to

log for us, but they never were any good.

The Chairman. They do not have to rely upon Indians over there.

They can take white men in.

Mr. Weyerhaeuser. They may make a condition that the Indian

does the logging.

The CHAIRMAN. The law provides that they shall give the Indians the preference as far as labor is concerned, but they are not required to employ Indians, and if the Government is successful the Indians will have money enough without working.

Mr. WEYERHAEUSER. Are the Indians to get the net?

The CHAIRMAN. Yes; that is, all Indian forest; and Congress passed a law authorizing the Indian Department and the Bureau of Forestry to construct this sawmill and operate it out of any fund belonging to those Indians, and if it is profitable they get the benefit of it. If it is not, they get the experience, and so do our fellows. Mr. WEYERHAEUSER. It ought to be profitable.

The CHAIRMAN. It may be a very good thing; that is, it may teach all of us something in reference to lumbering.

Mr. WEYERHAEUSER. Yes; that is right.

The CHAIRMAN. If the forests were practically exhausted to-day, with your wide experience and knowledge, what would you suggest

as a method to reproduction?

Mr. WEYERHAEUSER. It depends on what kind of land it is and where it is and how valuable it is. The portion of Germany where I came from has not much timber. It was all timber at one time heavy oak. It is all gone. They do not use lumber, hardly ever.

The CHAIRMAN. Supposing the forests of the country to be prac-

tically exhausted.

Mr. Weyerhaeuser. I would commence to try and raise some; do just what the Government has been doing-try and raise some-and where there was any timber make a reservation and keep it. I think if they had started ten years sooner or twenty years sooner to make the forest reserves as they have it now that we would have lots of timber yet, provided the fires were kept out.

The CHAIRMAN. Take it in the large cities fifty years ago.

fire department was mainly volunteer fire department.

Mr. Weyerhaeuser. Yes.

The Chairman. Now New York and Chicago spend, I guess, several million dollars a year for fire protection.

Mr. Weyerhaeuser. Yes.

The CHAIRMAN. Isn't it just as necessary to preserve the forest?

Mr. WEYERHAEUSER. It is; yes, sir. The Chairman. Can it be done with no greater expense or far less

expense than it is to give fire protection in the city?

Mr. WEYERHAEUSER. It ought not to cost anything like it, because there is not so much danger. If you have timber by itself, it don't

cost so much to protect it.

The CHAIRMAN. We do not expect a man to furnish all his own fire protection. I suppose that this building that we are in is equipped with some fire protection, but the insurance companies and the owners of buildings do not rely upon the fire protection in the building. They want a city fire department besides.

Mr. WEYERHAEUSER. Yes; that is right.

The CHAIRMAN. The timber that is burned over this year, would not a small part of the value of that have given good fire protection everywhere?

Mr. WEYERHAEUSER. It would. The young timber this fire has not

hurt so much—the growing timber.

The CHAIRMAN. But it has cut off timber that is from 5 to 20 years old that was growing.

Mr. Weyerhaeuser. Yes.

The CHAIRMAN. Fire does not often start in timber that has not been cut over?

Mr. WEYERHAEUSER. Not often, excepting lightning once in a while starts a fire. Timber was burned before settlers were in this country. Every once in a while we find a growth of timber that took fire somehow. I have always had an idea that it was done by lightning.

The CHAIRMAN. I suppose that would be rare, because lightning

is usually accompanied with rain and that helps put it out.

Mr. Weyerhaeuser. Yes.

Mr. Ryan. The fire starts in the slashings that are left after cut-

ting, and that is very destructive?

Mr. WEYERHAEUSER. Yes. That kills the rest of the timber. The bulk of the timber in Wisconsin is hemlock, and hemlock can not stand any fire at all. Pine stands a great deal more fire than hemlock.

Mr. Ryan. They would go through these forests and just cut the

pine?

Mr. Weyerhaeuser. Yes, sir.

Mr. Ryan. Then a fire is sure to follow?

Mr. Weyerhaeuser. Yes.

The CHAIRMAN. Fire does not do much harm in this large pine. does it?

Mr. Weyerhaeuser. No, except it kills the small pine.

The CHAIRMAN. It does not hurt the big pine tree any, does it?

Mr. WEYERHAEUSER. No. We had a lot of hemlock killed in Washington. I went through that timber and the lower part of the timber did not show any fire at all. I said it was all right, the timber would come out all right. They said it would not. The next year the needles did not come out. The fire went through the top and burned the needles off and killed it.

The CHAIRMAN. How long will a white pine tree stand after it has

been killed without injuring it?

Mr. WEYERHAEUSER. Probably in four years it would not be injured. When the sap gets out it commences to decay, and mostly decays from the top.

The CHAIRMAN. How about the other trees, do they injure quickly? Mr. WEYERHAEUSER. Yes, quicker. With our pine in Minnesota and Wisconsin we have to fell the timber or the worms will destroy it. We had one hundred and fifty million burned about 15 miles this side of Duluth and it was valueless.

The CHAIRMAN. Was that pine?

Mr. WEYERHAEUSER. That was all pine. That was burned. There were a great many leaves and needles on the ground and the fire came and burned the leaves. We didn't think it would die, but the first year about a quarter of it died and the next some more, and after a while we lost it all.

Mr. RYAN. If you had cut that right away would it have been all

right?

Mr. Weyerhaeuser. Yes.

Mr. Ryan. You could not do that?

Mr. WEYERHAEUSER. We might have done it, but lumber wasn't worth anything. We shipped lumber from Duluth to Chicago and got about three and a half or four dollars.

Mr. Ryan. How long ago was that?

Mr. WEYERHAEUSER. That was in 1894, I think. The fire that burned the needles was a terrible fire. As I understand it, we have got to have needles, as they are the lungs of the tree.

The CHAIRMAN. We are very much obliged to you.

Mr. WEYERHAEUSER. I wish I could tell you more about it. would be glad to do it. I think it is high time for the State or the Government to do something. The individual can not do it very

The CHAIRMAN. The individual can not do it alone. I have got a nice piece of pine land in Florida. I don't think it is good for anything else except raising pine. Pine grows on it in great shape, but it is just a waste of time, for every few years some fellow sets fire to it and burns it all over.

Mr. WEYERHAEUSER. You asked me a question about taxes, how

much it would be per acre.

The CHAIRMAN. I thought you got it a little high.

Mr. Weyerhaeuser. I think so. I think we have paid as high as \$160 to \$200 on forties.

The CHAIRMAN. That would be an exceptional case?

Mr. Weyerhaeuser. Yes.

The CHAIRMAN. Compounded by the time a tree got to be good

size it would be more than the land would be worth.

Mr. Weyerhaeuser. Yes. I think we have paid as high as \$200 a forty where everybody knew we had good timber and the fellows that make the assessment want that timber cut down. They want to get the benefit of the logs.

The CHAIRMAN. I take it one of the difficulties you have about that is that when a few settlers get into a community they want the timber

off; they want more people in there?

Mr. Weyerhaeuser. Yes.

The CHAIRMAN. And the way to get it off is to tax it off?

Mr. WEYERHAEUSER. That is right.

The CHAIRMAN. We find in Congress that as a general thing the members from the newer portions of the country where they have lots of unsettled land, whether it be prairie or timber, want to get more people in there. The storekeepers want more people to trade with them, and everybody wants more people in there and they don't care much what happens to the natural resources. They want it all.

Mr. WEYERHAEUSER. Yes. I know we had two or three pieces of pine over in the Chippewa country which I wanted to save for my boys to show what pine timber was, but we had to cut it. Fire got

in the edges and we couldn't keep it.

The CHAIRMAN. Your son Rudolph was kind enough to show us

some very nice looking pine the other day up the railroad.

Mr. Ryan. Mr. Norris and I measured one that was nearly 12 feet in circumference about 18 inches from the ground.

Mr. WEYERHAEUSER. That was a good tree.

The CHAIRMAN. That would make pretty good lumber.

Mr. WEYERHAEUSER. Yes; 4 or 5 feet through; we used to find lots of them on the Chippewa.

The CHAIRMAN. How large was the largest white pine you ever

Mr. Weyerhaeuser. I would say from 4 to 5 feet; 6 feet on the stump.

The Chairman. Timber grows very large on the Pacific coast, doesn't it?

Mr. WEYERHAEUSER. Mostly.

The CHAIRMAN. That is because it is warmer there, I suppose?

Mr. WEYERHAEUSER. There is more moisture. In Washington we have timber land there which grows fifty million to the section. Here if we had twelve or sixteen million it was very good. I know one that we cut sixteen million off from.

Mr. RYAN. Where was that—Chippewa?

Mr. WEYERHAEUSER. Yes, sir. We had better timber in that country. Ten thousand to the acre is pretty good in this country. We have got to count all the swamps in to make an average, where nothing grows.

# STATEMENT OF GEN. CHRISTOPHER C. ANDREWS, FORESTRY COMMISSIONER OF MINNESOTA.

(Examined by the chairman.)

The CHAIRMAN. Will you state your official position to the stenographer?

General Andrews. Forestry commissioner of Minnesota. The CHAIRMAN. How long have you held that position? General Andrews. This is the fourteenth year.

The CHAIRMAN. Were you connected in any way with the office before that?

General Andrews. No; the title was, up to four years ago, chief fire warden, but the duties are the same.

The CHAIRMAN. How long have you been interested in forestry

matters?

General Andrews. I was brought up on a farm in New Hampshire that contained pine forest. I, however, became interested in forestry when I was minister to Stockholm in 1869. In 1872 I made a report on the forests of Sweden, which is published by the Department of State in pamphlet form and also in the diplomatic papers, so I have been interested in forestry many years.

The CHAIRMAN. Did that paper cover the forestry methods of

control in Sweden?

General Andrews. It did. A new edition of it was published about eight years ago by Congress, by the Senate, 20,000 copies. It was revised and the revised edition was published.

The CHAIRMAN. We will insert that in the record.

[Senate Document No. 452, Fifty-sixth Congress, first session.]

REPORT ON FORESTRY IN SWEDEN.

### INTRODUCTION.

My report on forestry in Sweden was originally published in the volume of Foreign Relations of the United States for 1872, and the then Secretary of State, Mr. Fish, also caused a separate edition of it in pamphlet form to be printed and distributed. The Senate having authorized a new edition to be revised by myself (without charge). I immediately consulted Count Wacht-meister, chief of the forestry bureau at Stockholm, as to any new matter that could properly be introduced. He replied that on account of changes that had occurred since my report was made it would be advisable for me to engage Mr. K. G. G. Norrling (extra jägmästare) to prepare a short complete sketch

of the present situation of Swedish forestry, which I gladly did. Mr. Norrling is an educated and trained forester, eligible for appointment as chief of range, and has furnished a very able sketch in Swedish, a translation of which forms the fourth to the tenth of the following subdivisions, inclusive. The translation is not as concise as the original, but is the best that circumstances have permitted.

## 1. Mr. Andrews to Mr. Fish.

No. 166.]

LEGATION OF THE UNITED STATES, Stockholm, August 5, 1872. (Received September 25.)

SIB: I have the honor to send herewith a report which I have prepared on the forests and forest culture of Sweden. It comprises a practical description of the manner of growing and the economical management and use of forests, as well as a translation of some of the principal laws on the administration, care, and preservation of public forests and for the support of instruction in forestry.

I also transmit four different treatises, in Swedish, on forest culture, cited in the report; also a report of a commission in regard to further legislation

concerning the forests.

The commission first mentioned recommended legislation in Sweden similar to what obtains in many other countries of Europe, prohibiting owners of private forests from cutting for commercial purposes trees under a certain size. The fact that some kinds of trees require several generations for their full development and that the climate and supply of water in a country are much influenced by the existence or nonexistence of forests affords strong grounds for such a law.

Trusting that this document may be of some help in shaping the much-needed legislation in the United States for promoting regrowth and the preservation

of forests, I remain, etc.,

C. C. ANDREWS.

## 2. NATURE AND EXTENT OF THE FORESTS OF SWEDEN.

The great mass of the forests of Sweden is found in the north central part of the country, and consists principally of the so-called Scotch pine and the white or Norway spruce, both of which grow to great size and are highly esteemed for their timber. The common European oak has its natural northern boundary along the river Dal, but is cultivated up to Sundsvall, in latitude 62° 20'. It is a splendid tree, a favorite ornament to parks, and produces timber superior to American white oak. The beech abounds in the south part of the kingdom, and is cultivated even north of Upsala. However, the species most numerous, next to fir, is the white birch, which has a beautiful drooping foliage and is useful for timber. It is found in all the forests and is not unfrequently used for avenues at country seats. It furnishes the principal fuel. The lime, or linden, makes a handsome and vigorous tree, and it is not uncommon to see it forming splendid avenues a couple of centuries old. The gray alder is very common and merits particular notice on account of its large size. The elm (less stately than the American), the soft maple, the ash, the poplar, the hawthorn (oxel), large and handsome, are also common.

On the whole, Sweden appears to be a natural forest country. Nor is the climate unfavorable to a fair variety and hardy growth of trees. Observations at Stockholm, from 1754 to 1863—one hundred and nine years—show that the extreme of heat during that time was 96°.8, and the extreme of cold 25°.6 below zero, Fahrenheit. At Haparanda, the most northerly port, also in Jemptland, the mercury frequently freezes. [For some remarks on the fruit trees of Sweden, see report on the agriculture of Sweden, Commercial Relations United

States, 1870, p. 385.]

In 1850 the then chief director of the Forest Institute estimated the area of land in Sweden which bears, or is suitable for bearing, forests at 30,000,000 acres; and he expressed the opinion that if forest growing was properly attended to the country would not only have enough product therefrom for its own use, but a quantity for export, which, at the then increased price of lumber in southern countries, would be more profitable than the export of iron. He maintained, however, that forest economy up to that time had been managed with the greatest want of care.

Mr. Forsell, in a paper on this subject published in 1844, shows that a lack of timber was beginning to be felt in many parts of Sweden, and states that Stora Kopparberg and Gefleborg were the only counties so rich in forests as to be sure of their preservation for a long term of years without an improved system of forest economy. And he adds that if such a system shall not be established, the whole country will soon suffer for the want of forests.

As proof, however, of the efforts in this regard which were being adopted by the Forest Institute, as well as the iron office, it may be mentioned that on Wisings Island 700 acres were planted with oaks, the sand plains of Christianstad and Holland counties were planted with trees, and improvements were

made in the royal parks.

At present one sees along the principal routes of travel a generous supply of forest, though the trees are mostly young; and the surface of the country, being agreeably undulating and abundantly supplied with clear streams and lakes, tends to produce a favorable impression. The growth of young forest on patches too rocky for tilling, or even grazing, and the scattered seed trees left standing in places where wood or timber has been cut off in the larger forests, remind the traveler of the attention to forest culture which is becoming general.

## 3. HISTORICAL SKETCH OF FOREST ADMINISTRATION.

Most of the countries of Europe, and Sweden among them, appear to have borrowed the principal part of their forest science from Germany, which has long occupied the foremost position in respect to forest administration and forest literature.

Forest regulations were issued by the Swedish Government as early as 1647; and even before that private owners were required by law to plant and protect from cattle two timber trees for every one cut-a crude practice, which to the educated forester is ridiculous, because to obtain good timber trees the forest when young must be crowded. The owners of privileged estates were exempted from this last requirement by the diet of 1734, but it continued to apply to tax-paying estates and to crown lands leased to private persons till 1789. Regulations for the forest were again issued in 1793, but they were soon found unsatisfactory, and in 1798 a commission was appointed, consisting of six persons, to devise new regulations, which, after five years' labor, reported an amendment of fifteen sections of the forest regulations, and their project was finally confirmed and issued in the form of forest regulations, August 1, 1805. The same day a royal circular letter was sent to each of the county or provincial governments, ordering a project to be presented for a law on the duty of replanting forests. Shortly afterwards Prof. F. W. Radloff was commissioned to visit Germany to study its forest system, and his report was submitted, in 1809, to the before-mentioned commission. The subject was, in 1810, remitted by the diet to the administration of marine affairs and the bureau of public or crown lands and of mines, which, after the provincial governors had expressed their opinion thereon, recommended (1819) that each county or provincial government should work out a plan adapted to its own locality, and that a committee for the whole kingdom might then be appoined to prepare a final project for a law on this subject. The matter was taken up in the cabinet in 1820, but was postponed till 1823, in order to be united with a law for the sale of crown timber; and the result was that regulations for the crown forests were issued by the Government in 1824. Early in 1828 a committee of three persons was appointed by the Government to report a project for the economy of public and private forests and amendments to the laws in regard to hunting. mittee reported the same year in favor of the establishment of a forest institute, to be located in the deer park, close to Sockholm, of suitable instruction in hunting, and the establishment of a central bureau or administration for the management of forest affairs. The Government established the institute and confirmed the plan for its operation. The committee, on further consideration, being of opinion that the administrative duties could be performed by the chief director of the institute, the Government postponed establishing the central bureau of administration, but charged the committee to prepare a new plan of instruction in regard to hunting and the management of forests. Report having been made as to the principles which should obtain therein, the committee was again, in 1836, ordered to report regulations in conformity with such principles for instruction in the forest and hunting establishment. Their projects were presented in 1837, and the Government issued an order embodying the same March 16, 1838.

Influenced by the action of the sixth Swedish national agricultural fair of 1853, no less than by that of the diet in 1853 and 1854, the Government appointed a committee to report a project as to what means, either through the legislative or executive branches of the Government, could further be adopted to obviate in the future the then complained of lack of forests and the injurious climatic effects arising from their destruction. Their report was handed in June 28, 1856, embracing a plan for the management of forests, and action thereon was taken in 1859, when the bureau of forest administration was created.

#### 4. AREA OF STATE FORESTS.

The whole area of Sweden, water not included, contains 102,797,720 acres, of which 72,711,285 acres are uncultivated land (barren mountainous regions not included), and of this area, 47,500,000 acres, or 46 per cent, consists of forests. Among countries exporting wooden manufactures Sweden takes first place, both on account of the magnitude of the export and the excellent quality of the timber. The forests belong either to the State, to certain communities and public institutions, or to private individuals.

To the State belong:

• • • • • • • • • • • • • • • • • • • •	Acres.
Crown parks	9, 354, 404. 20
Quicksand plantations	3, 333, 13
Undivided crown lands, etc	2, 390, 562, 52
King's domains	483, 177. 05
Forests assigned for the maintenance of civil and ecclesiastical	
officers	902, 486. <b>23</b>
Mine forests, etc	761, 036, 52
Total	13, 894, 999. 65
Other public forests are:	
Forests assigned to public institutions	129, 666, 77
Common woods belonging to certain communities.	
City forests	104, 779 83
Forests of crown lands and plantations	2, 821, 172. 70
Total	4, 532, 243. 60

All these forests, containing in all 18,427,243.25 acres, are called public forests and are placed under the supervision of a separate department for the management of the forests. The greater part, or 12,500,000 acres, are under the exclusive control of this department.

The public forests contain about 25 per cent of all uncultivated land and the greatest part of the forests of Sweden is, therefore, under private ownership. The two northern provinces, Lapland and Westerbotten, extending between 64° 69' north latitude, having the largest percentage of public forests, viz, 12,750,000 acres. But in all other provinces private forests predominate. There is a great desire to increase the public forests, as experience has clearly shown that owners of private forests always endeavor to get as early profit as possible by cutting the timber that is most easily sold, without thinking of the future need and common welfare. The Swedish Riksdag has looked into this matter thoroughly, and large sums are yearly devoted to the purchase of land in order to establish new crown parks.

## 5. Forest Administration.

The value of the forests and their great influence, both upon the climate and the fertility of the soil, is now understood by all intelligent people in Sweden. The idea also prevails that the forests are threatened with destruction, if not the same special care is applied to them as to the cultivated soil. They have therefore been placed under systematic management. The forests are under the care of various officials—chiefs of range, managers, and foresters—and the State is doing all in its power to protect the forests by proper legislation. Large sums have been granted for their management, and nothing has been neglected in order to bring the forest economy into a true relation with other branches of agriculture.

From the above it may be seen that forest economy is of great importance, as mistakes in regard to the management will affect a long period, and at the same time it is hard, if not impossible, to remedy them. The State has, therefore, either at the universities or at special institutions, provided for a theoretical education of forest officials. They receive the necessary practical instruction in the forest.

A competent forest manager ought to be a naturalist, a forest economist, and a man of business, all in one; he ought to be especially versed in natural history, forest legislation, building of roads and waterworks, and also in political economy. He must know the peculiarities and the developments of all different trees, mosses, and forest vegetation; he must be familiar with the quality of the soil in each part of his district; he must make observations in regard to nature's influence, if favorable or harmful, upon the growth of the forest; he must observe the winds, the precipitations, the drought and the frost, and the animal life, from the grazing beasts to the smallest insects. He must know the effects of all these different influences, so that means may be taken to protect the forests.

The proper method of managing forests has been investigated from time to time by special committees, from the forest committee of 1749 to the Norrland forest committee of 1868. The expected results have not yet been accomplished, and the question of the State's relation to private forest economy is yet an object for lively discussion.

In 1896 a committee was appointed to submit propositions for a better management of private forests, and the work of this committee was finished in 1899, although the results of its investigations have not yet been acted upon by the State authorities. It seems as if the idea now generally prevails that the preservation of the forests is necessary to the future welfare of the country. The forests must be better managed and cultivated; it is not sufficient to lessen the cutting of timber.

The later history of Swedish forest economy is intimately connected with the name of Israel Adolf af Ström. Having traveled extensively in Denmark and Germany in order to study the higher developed forestry of these countries, he made his experiences known through books and pamphlets, and he also used his personal influence to effect a better system of forest economy. He paved, indeed, the way for the later development of forestry in Sweden. The first result of his work was the establishment in 1828 of the State Forestry Institute in Stockholm, and the organization of the forestry corps (skogsstaten) in 1836. Ström had as early as 1823 established a private forestry school at his own expense. He died on the 24th of October, 1856.

The development from that time has not depended upon individual struggle, but upon the cooperative efforts of the forestry corps and the central forestry bureau (skogsstyrelsen). The latter was in existence between 1859 and 1882. and during these years Mr. C. A. T. Björkman (of late years governor of the province of Gefleborg) exercised a great influence upon all matters pertaining to forest economy in Sweden. Reorganized in 1883 as the domain bureau ("doman styrelsen," literally domain administration), it has distinguished itself by adopting the newest ideas, not only in regard to educational work and firmer organization of the forestry corps, but also in regard to rational forest management, in which the system of tract cutting had formerly been treated with partiality. The perfection of the thinning system and propagation through methods of heredity and selection are, no doubt, the most powerful factors in bringing about a sounder and more lasting condition of the national forest economy of Sweden. But in order to reach such a development experiments are necessary, and these experiments must be made according to certain plans and continued until crowned with success. The results gained by these experiments are rather too expensive to be used in the practical economy of the forests, and it is, therefore, very probable that an experimental forestry station will be established in Sweden similar to institutions of this kind in the larger countries of Europe.

The domain bureau superintends not only the public forests, but also the State agricultural lands. It is under the control of the royal agricultural department. The forestry corps (skogsstaten) is under the domain bureau, and received its present organization in 1890.

The forests of Sweden are divided into nine districts (it is intended to later increase them to ten), and each of these districts is under the management of an inspector (öfverjägmästare), whose principal duty is to exercise control over his subordinate officers. He ranks with majors of the army and receives a

salary of \$1,400 a year besides traveling expenses. The districts are subdivided into "revir" or ranges, numbering eighty-eight in the whole country according to a granted increase in 1900. Each range (revir) is under the supervision of a chief of range (jägmästare—hunting master), whose duty is to take care of the public forests in his range and also (in certain parts of Sweden) to see that the laws in regard to private forests are observed. He ranks with captains of the army and receives a yearly salary of \$1,200. He is aided in his duties by an assistant (extra jägmästare) and gamekeepers (kronojäre). The latter superintend certain tracts (beyakningstrakt) of the range.

intend certain tracts (bevakningstrakt) of the range.

Lapland and Westerbotten contain 33 ranges, each averaging 312,500 acres of public forests and 410,000 acres of private forests. The latter are also under the control of the forestry corps. In central Sweden (the remaining part of Nordland and Dalarne) each of the 17 ranges averages 150,000 acres of State forests, while of the private forests only 145,000 acres (located in Sarna and Idre revir) are under the control of the forestry corps. In southern Sweden (Gotland and Svealand except Dalarne) are 38 ranges, each averaging 47,500 acres of State forests and 6,250 acres of communal woods (härads allminningar). In one range (the island of Gotland) the private forests containing 538,000 acres are to a certain extent placed under the control of the forestry corps. In the whole country the State forests average 166,250 acres in each range.

The duties of the forest officials are fixed by the royal instruction to the forestry corps of the 29th of November, 1889.

In exercising supervision over the range the proper officers must act in accordance with the royal regulations of the 26th of January, 1894, in regard to the economy of the public forests. As public forests are also considered the so-called communal woods (härads allmänningar in southern Sweden, they are managed after the same methods as the State forests.

The most important law in regard to private forests is that of the 29th of June, 1866, about the right to dispose of the timber on certain lands for which ground rent is paid to the State (skattehemman) and which were originally new settlements (§ 4 and § 5 of this law are changed by the royal notifications of September 18, 1874, and of April 20, 1883). This law was originally intended only for such rental lands in upper Nordland which were separated from the Crown after June 29, 1866, or for such older settlements where the prescribed duties in regard to building and cultivation had not been fulfilled. But through § 8 of the royal regulation of May 30, 1873, in regard to the dividing of the grounds in the Lapland districts of Westerbotten and Norrbotten, this law was extended to all private forests in Lapland, the largest and most northern province of Sweden. Although this province contains many barren mountains, it comprises not less than 19 ranges. Through section 4 of the royal letter of June 27, 1879, in regard to the grounds for surveying and dividing Sarna parish by the Idre Chapell law, this ordinance of 1866 was extended to these parishes containing the most southern mountains and constituting each one range. This law is intended to limit the yearly output to a certain quantity of timber which the chief of range marks out for sale. It is therefore called "compulsory marking" (utsyningstvång).

No forest laws are in force for the mountainous regions between Lapland and Sarna parish. In Westerbotten, the next largest and the most northern of the coast provinces, containing 14 ranges, the private forests are subject to the royal ordinance of March 19, 1888, in regard to measures for preventing excessive cutting of younger trees in the districts of Vesterbotten and Norrbotten. This ordinance limits the amount of timber to be offered for sale to trees of a certain minimum size, and is, therefore, called "the dimension law." Only if smaller trees must be cut for the best interests of the forest the chief of range shall first mark these trees for sawing and shipping purposes. In the island of Gotland, constituting one range, all private forests are subjected to the law of March 30, 1894, about measures for preventing forest destruction in Gotland.

The aim of this law is not only to act as a dimension law, preventing the shipping of smaller trees, but also to cause voluntary forest cultivation made necessary by the lack of natural reproduction. After an investigation has been made by the chief of range the governor of the island is authorized to prohibit any timber to be cut for shipping purposes until new growth has been produced. In three southern ranges of Sweden similar regulations are prevailing in regard to 19 private quicksand plantations where cultures and markings shall be made by the chief of range.

The private forests above-mentioned subjected to different laws constitute about one-fourth of all private forests. How large a percentage of the remaining three-fourths that are managed more or less according to the principles of forest economy can not be stated, but it is a fact that at least a part of them are cared for by persons educated in forestry. Many of the private forests of Nordland have been acquired from their original owners by sawmili companies, and this has greatly hastened the utilization of the forests.

As a part of the official statistics of Sweden the domain bureau publishes a report every year of the forest conditions of the country during the preceding year. This report is based upon the annual reports which the inspectors and the chiefs of range are obliged to send to said bureau in regard to the management of their respective districts and ranges. According to the report of the domain bureau of 1898 the assessed valuation of the Crown parks and similar state forests was \$1.60 per acre.

The statistics of the same year show:

The income to the State from forestry	\$2, 104, 412
Cost of management (for the forest economy) \$275, 879	
Cost of administration (for the forestry corps) 135, 146	
The forestry institutions 12,634	
	423, 659
Net earnings	1, 680, 753

In the administration expenses is not included any part of the cost for the maintenance of the domain bureau, agricultural department, or the provincial governments, although they are all taking part, more or less, in the administration of forestry. In regard to private forests of Sweden, any certain values can not be given.

### 6. DIFFERENT SYSTEMS OF FOREST CULTURE.

Thinning was originally the only method of cutting timber, and the cutting was done wherever it was convenient to do so without taking into consideration the condition of the trees left standing or the requirements for reforestation. The result was that the forests degenerated and became sparse. The cause was ascribed to the method of thinning, and instead of improving this method it was almost entirely abolished and tract cutting introduced. Many a forester would not afterwards accept any other method than the latter, which enabled him to estimate the future producing capacity with very great accuracy to provide for forest reproduction, and also to see without difficulty the results of his work; but tract cutting violates nature, and as certain circumstances make the application of the method harmful to the forest's duration, the old method of thinning, although now greatly improved, has again been adopted. thinning has been adopted because of the rocky and poor quality of the soil. Such is the case with quicksand plantations on the seacoasts, where a method of thinning must be used, as it is important that the complete growth of the trees prevent the sand from becoming loose and drifting.

If a forester were accompanied on his inspection tour in the desolate forests of Norrland it would be seen that he also must employ a method of thinning, as only the large trees suitable for lumber can endure the long transportation and be in a fit condition to sell. Thinning is, therefore, necessary for the sake of economy, and forests, where this method is practiced, are called timber-

thinning forests (timmerblädningsskogar).

Tract-cutting forests are divided into districts and smaller divisions according to the condition of the trees and the soil and a specified number of cuttings made, each of which is cut and replanted at the same time, so that in the future they may produce trees of the same age. In the beginning the new growth is very dense, so that thousands of plants are found on each acre, but soon many become crowded and die out. This clearing process continues with increasing force, and as soon as the plants have reached such size that they can be utilized for poles and sold, this natural-clearing process is aided by removing all damaged, ugly, and crowded trees, and this is repeated at certain intervals, usually every tenth or twentieth year. Assistance clearing, the forester calls this operation, and he seeks thereby to hasten the development of the remaining trees. When reproduction is the result of seeding, and the forest is allowed to continue its growth until mature, about one hundred years or more, as is the case with the coniferous and some deciduous forests, they are

called "high forests" (högskogar), whether the cutting is done by tract cutting or thinning.

During the last two decades the thinning system has again come into favor. It was at length seen that tract cutting was not conducive to protect the soil's power of reproduction, which is liable to deteriorate after the cutting has been completed, and it also brought with it considerable culture expenses. During the latter years it has also been observed that transplanted forests and also those raised by seeding are inferior to those reproduced by natural propa-Seeds have been taken from parent trees, good or bad, without discrimination. Most of the seeds are grown in nurseries, and they often give the plants bad peculiarities which they have inherited. After the poorest have been thrown aside the others have been treated as normal plants and set out, as if they would all reach the same state of perfection. The natural selection has therefore been counteracted, and the result must be degeneracy, When thinning is now in progress, special attention is paid to a continual progressive selection. This is commenced in the young forests and is repeated after suitable intervals, the length of which depends upon different conditions and is greater in the northern parts. It is also used in middle-aged and older forests, reproduced by natural propagation, in groups, without the soil becoming exposed to the sun or the winds.

As thinning therefore protects the nourishment of the soil better than tract cutting and at the same time provides for reproduction without direct expense, it also produces a forest hardier against external dangers. Far from trying to produce tracts of trees of a uniform age, which are the tract cutter's pride and joy, the work is arranged so as to reproduce forests of the greatest possible difference in age. The forests are raised by propagation in groups, causing these groups of young trees, by cutting the larger trees on the borders, to extend until they at length join each other. Each group will, consequently, have the largest and highest trees in the center, and the trees will decrease in This amphitheater order brings with it light, age and size toward the sides. not only from above, as is the case in tract-cut forests, but also from the sides, by which a more rapid growth is secured. The power to resist the pressure of snowfalls and storms is thereby increased, and the danger of attacks from insects lessened. Thinning also allows each individual tree to exercise its right, The many slender trees which under the system of tract cutting are felled develop under thinning into trees that will furnish the finest timber. The cause of this is the exposure to more light, by which they acquire a more rapid growth.

There are many modifications of the thinning system. From the above-described method of thinning, tract thinning differs, especially in that respect, that in reproducing less attention is paid to a circular widening of the old openings than to continually making new ones. Another modification of thinning produces propagation first by a general thinning, and later on by a thinning, increased during a long time, of the so-called reproduction tract. The different methods of thinning are employed exclusively in the northern and central parts of Sweden, called Norrland and Dalarne, where two-thirds of all the forests in the country are located. Of the State forests, 90 per cent are thinned, and of the private forests, 60 per cent. In the remaining forests of the country tract cutting prevails.

## 7. FOREST REPRODUCTION.

Propagation as applied to forest means the continuance or multiplication of trees, either by nature or by human means, by which a new generation of trees is produced to succeed a forest wholly or in part destroyed. When trees are cut simply for lumber or other purely forest crops, care should be taken that a new crop may cover the part deforested. This should not be left to chance, but the greatest discrimination should be exercised, for there is reason to believe that the plants will inherit the peculiarities of the parent tree. Just how far this inheritance extends can not yet be stated, as relatively few experiments have been made with forest trees. The more noticeable among the peculiarities are the larch tree's inclination to grow a crooked trunk, the characteristic appearance of the pine tree's trunk and crown, the speedy growth of pine, spruce, and birch, the time for budding and shedding their leaves, etc. The results show that heredity is an important factor to be taken into consideration and that in many cases plants of crooked, knotty, stunted, and sickly trees will be liable to resemble the parent trees. Consequently only rapid-growing,

healthy, handsome trees ought to be allowed to propagate our forests, so that they will not degenerate but advance to an end toward which culture is striv-

ing-greater production and more valuable forms.

When, therefore, the soil that produces a tree of slow growth can nourish one of more rapid growth of the same species, wisdom counsels us to save only the best trees for the purpose of natural propagation or self-seeding. Of Swedish coniferous trees, only the pine can be left standing as single scattered trees when cutting is done, as the spruce so treated would either dry up or be overthrown by storms. The spruce forest ought, therefore, to be reproduced by thinning; but this thinning can not be done in old, dense spruce forests, as the trees would then be exposed to drought. The cutting must commence with middle-aged districts, and be repeated at short intervals, always cutting poorer and less perfect trees first, so that only beautiful and well-grown parent trees may contribute to propagation.

But even with the different methods of natural propagation, the forester must lend his aid wherever necessary. He must hoe or in some other manner loosen the earth, so that the falling seeds may sink into the soil and then grow as protected as possible. If a new growth fails to appear at the expiration of the usual time, longer time being allowed to higher latitudes and places of a higher level above the sea, new seeds must be sown or plants transplanted so as to raise more trees, for every year's delay only conduces to make the soil more dry and unfruitful. The requisite plants are often taken from places where the growth is denser than the welfare of the forest demands; but usually they have been sown and raised in nurseries, especially made for this purpose, where greater care can be expended on their development. The latter method of raising trees is best adapted to pine, spruce, and birch, but in certain instances

is used to grow oak, larch, and other varieties.

In the southern part of the country, between 56° and 60° north latitude, where tract cutting is employed, many foresters prefer transplanting to seeding, as they consider the latter method less reliable. Of coniferous trees, young plants from 1 to 5 years are used, generally 2 and 3 year pine plants and 2 to 4 year spruce plants. In transplanting great care must be taken that the roots may not become dry and that the least possible injury be done. The older the plants are that are to be transplanted the more carefully must they be removed, often letting a piece of earth remain around the roots. Planting in holes with the best porous soil is the proper way to guard against drought, which is the greatest hindrance to the advancement of culture. If planting in very poor soil, fertilized soil should be used in filling up the hole. Some foresters set several plants together; others censure, though often without reason, this method of planting, and set only single plants in each hole, carefully rejecting all plants not wholly perfect.

It is impossible to tell from the plant what the tree will be like, so that often after planting the result has been an ugly forest. The reason for this is

unquestionably that the seeds did not come from beautiful trees.

The distance between each hole and the order in which they are arranged differs very much. Usually the 2 to 4 year-old plants are set in rows 1.5 to 2 m. apart, there being about 1.2 to 0.9 m. between each plant. In this way each plant receives about the same amount of space as if planted in square style at a distance of 1.3 m. or 1.7 to 1.8 m., by which 5,000 to 6,000 plants would be required for 2½ acres. When planting, the holes are usually made with a hoe and the plants set and planted with the hands. Care should be taken not to use implements that press the earth together and do violence to the roots.

In Sweden raising trees from seed is more common than transplanting. The ground is usually prepared in squares, and about 10 seeds sown into each square. The distance between these squares varies, but ought to be less than that between the holes made for plants. Eight thousand to 9,000 squares, with a surface of 2 to 3 square meters apiece for each 2½ acres, is considered the ordinary number for most districts. It is preferable to sow the seeds on the north side of and near stumps, stones, and other objects that give shade and protect from destruction by grazing cattle. This tree seeding occurs between 56° and 64° north latitude, but north of that it is rarely used.

In the public forests during 1898, through the forestry board, about 10,000 acres were cultivated at a direct expense of \$2 per acre. What amount of this

was planted and what amount seeded can not be definitely stated.

## 8. THE FOREST'S ENEMIES. (PROTECTION OF THE FOREST.)

The care of the forest in Sweden consists principally in providing protection against its enemies, although for complete management are also included different kinds of underbrush, clearings, and thinnings. Such clearings are not now necessary to any great extent in the country's old forests, which have originated through natural propagation and are consequently not dense, but the now 30-year old forests, which are partially or wholly the result of cultivation, will receive such care from a so-called stand culture.

In order to provide sufficient defense against storms, which in Sweden are the principal cause of injury to forests, the forester ascertains the direction of winds and strives to keep the part most exposed in a sound and dense growth. The northeast and southwest winds in Sweden are the most destructive, and in the interior of the country also the direct western winds. When cutting timber it is therefore necessary to take the effect of the winds into consideration. The cutting ought to commence from a sheltered side and proceed toward the directions.

tion from which the wind comes with the greatest force.

Many varieties of tree plants must be protected from the frost. Such plants should not be raised in valleys which are conducive to frosts. The best protected places are those of a higher elevation than their surroundings, the colder and heavier layers of air settling in the lowest places. For certain tender varieties, to be distributed in northern parts of the country, warm, southern slopes with a somewhat dry and porous soil must be found. As a rule, places near marshes and swamps are more liable to frosts, and, besides, the surrounding woodland is so wet that forest vegetation on that account depreciates. The swampiness is increased by mosses which form the soil covering. In large territories, especially in Norrland, the ground is in this way in a state of increasing swampiness. The forest economist's duty is in such cases to change the vegetation at the same time that he cuts the timber. But where the woodland is so wet that the vegetation suffers therefrom, it should be drained by ditching.

One of the forest's enemies is fire. During dry summers forest fires were formerly quite frequent, but now rarely occur, and when they do are usually caused by lightning. Yet they can originate from very trivial things, such as carelessly extinguishing camp fires in woods, and sometimes from sparks from a railroad engine. After a long drought it only needs a few sparks to fall among the dry brush and grass to ignite them, and the fiames spread rapidly to the dry branches and the combustible stuff on the ground until the fire in a short time progresses with irresistible fury. The forest supervisor will then speedily call together as many people as possible, whose duty it is to immediately hasten to the place of the fire. If the fire is still confined to brush and grass, and if it covers only a limited area, the people are arranged on that side of the fire toward which the wind blows. While some with branches, which, if opportunity allows, have been dipped in water, sweep the burning mosses on the ground and strike against the fire to smother it, others are busy with hoes and spades scraping all combustible material on the ground in one long row, which to begin with is made only a few feet wide, but, if there is sufficient time, wider.

If the earth is rich in roots and vegetable matter, or if after a steady drought the fire has penetrated into the mosses, a ditch must sometimes be dug. It is more difficult to control the fire when it prevails in the branches of the trees, which is a frequent occurrence in the resinous coniferous forests. Because of the heat and smoke it is then impossible to approach the fire, and means of defense must be on a larger scale. For such a fire a line of trees are cut at a suitable distance from the fire, letting the trees fall toward the fire. They are ignited and a counter fire started, the two then consuming everything in their way. From the strong draft caused by the larger fire the counter fires are drawn toward it. Still, the smaller fires must be closely watched, so that they do not spread in other directions. When the fires meet there is then no more food for the flames and the fires die out themselves. Deciduous trees in their lenfy season exert a remarkable force in preventing the progress of forest fires, and the prudent forester lets belts of deciduous trees, which are also beneficial to coniferous trees in other respects, extend through his coniferous forests. is true that the fire does not destroy the timber in healthy trees, for only the resin, leaves, dry branches, and the bark, to a certain extent, become food for the flames; yet the trees themselves are so injured through this that they can not continue to grow and are felled. The yearly loss occasioned by forest fires is not large, but can not be definitely stated.

The forests' greatest enemies in the animal kingdom are its smallest ones, so far as the coniferous trees are concerned. The forest insects which, because of their insignificant size, are often overlooked by uninformed persons, do sometimes, when conditions have been especially favorable for their multiplication to enormous numbers, cause great ravages, and can then destroy not only extensive tree plantations but also whole forests. Among the insects which appear to have been most destructive in the Swedish forests, belong different species of beetles, such as bark beetles, pine weevils, pine beetles, and caterpillars. The bark beetles are called bark beetles because they burrow into the bark of trees and deposit their eggs there, after which the larve themselves make burrows in different directions in the bark, in consequence of which the tree dies. The eight-toothed bark beetle (Tomicus typographus) deserves special attention, as it attacks the spruce forests, and during years of ravages causes spruce drought on a large scale: also the twelve-toothed bark beetle (T. stenographus), which usually prefers pine trees.

A very small bark beetle, the six-toothed (T. chalcographus), is often found together with the common eight-toothed beetle, and makes pretty star-shaped tunnels in the bark. The common pine weevil (Hylobius abietis) makes great havoc on coniferous plantations, but can, with some labor, be exterminated. The common pine beetle (Hylosinus piniperda), which at first sight much resembles the common bark beetle, is among the most widely spread of all the forest's injurious insects. Like the bark beetle, they live as larvæ in the bark of trees, and cause not a little harm when they become fully developed and devour the marrow of the youngest pine shoots, which thereafter dwindle away. They do not immediately kill the trees, but to a great extend retard their growth, and the top of the pines acquire a peculiar appearance, as if the side shoots had been cut off, and this is the reason the Germans have given this insect the name of gardener. The larvæ of the caterpillar destroy in the middle and southern parts of Sweden the roots of tree plants, and especially is this true of those in nurserles.

Among moths there are many which are injurious, such as the pine moth (Gastropascha pini), the black arches, nun or spruce moth (Liparis monacha), pine beauty (Trachea piniperda), the geometrical moth, bordered white moth or span worm (Fidonia piniaria), the larch mining moth (Tinea la ricinella), the pine-shoot tortrix or twig twister (Tortrix buoliana), the green oak tortrix or oak-leaf roller (T. viridana), etc. Among these the nun or spruce moth has advanced, devastating in southern Sweden, principally in Södermanland and Ostergotland, where elaborate means have been employed for their extermination. The work has been chiefly confined to whitewashing the trunks of trees, this procedure preventing the larvæ from infesting healthy trees. Besides, in districts small trees have been felled and the branches trimmed off, both to prevent the larvæ from spreading and to deprive them of food.

Too numerous game can also be harmful to the forest economy. Sweden's most noble wild animal, the elk, causes in certain parts of the country noticeable damage to young pines whose cones and shoots furnish a part of his food. The roe deer causes injury to the plants of the spruce, and especially to those of the silver spruce. From the forester's point of view it would be well to reduce the number of these animals more than the hunter in the interests of hunting will admit. Even grazing cattle, and foremost among them the goat, become in places where propagation is in progress really injurious, especially if the pastures are not confined within certain limits.

To the forest's foes belong also a large number of parasitic fungi, which appear chiefly on the trees, blossoms, leaves, cones, bark, or else in the wood.

To the first group belong Lopho dermium Pinastri, which in nurseries cause

To the first group belong Lopho dermium Pinastri, which in nurseries cause much damage to two-year or older pine plants, fungl, Chrysomyra abictis on the spruce, etc.

To the latter group of fungi, which produce decay, may be named the *Polyporus pini*, *P. annosus*, *P. pinicola*, *P. borealis*, all common on our coniferous trees. Against the parasitic fungi one is as yet almost defenseless. In many cases the diseased plants and trees must be removed to prevent the infection from spreading.

## 9. PREPARING PLANS FOR THE CARE OF THE FOREST. (FOREST DIVISION.)

In rational forest economy the work which is to be done during a period of ten to twenty years is usually considered beforehand and special work defined for each year of this period. This calculation belongs to a part of forest economy called forest division or forest valuation. A careful plan of economy is mapped out for the management of the forest on the basis of a previous surveying, description, and estimate or valuation of the timber. But this plan of economy must often undergo more or less alternation, in consequence of unforeseen circumstances, such as storm devastations, insect depredations, and forest fires, or when it is necessary to make use of favorable conditions which may arise when there is an increased demand for certain varieties of timber. The changes in the original plans which thus arise are righted at the forest revisions recurring at regular intervals.

Complete plans for the care of the forest are usually made only in regard to the State forests, and not even in regard to all of these, as for the greater number of crown parks in northern Sweden only a summary is made of the valuation of the timber resources. A similar summary is also made of the

timber to be cut during the so-called division period.

The cutting of the stated amount is then done without any previously defined plan, wherefore the succeeding revisions are intended not so much for pursuing a systematic forest culture already started as for making new calculations like the former ones. Such original calculation that is not intended for a certain period of time, but is only temporarily in force, is also practiced in regard to private forests located among the mountainous regions. These forests are under the supervision of the forest corps, and all timber cut for sale must be marked. For other private forests, which are subject to forest laws, no estimate is made of the timber to be cut, as the owner of the forest can conduct his lumbering to suit himself if he only remains within the wide limits of the law. The forestry corps has only to see that the laws are obeyed, and if they are not to begin proceedings in the manner already described under heading, Forestry Administration. For the remaining private forests it is not customary to make working plans, although many of them—how many can not be stated—receive private attention from the forestry corps.

Directions concerning the division of the public forests for tract cutting and tract thinning were issued by the royal domain office May 16, 1896. According to these directions maps must be made of the forest, a general description of its nature and condition, and a special description of the different districts and tracts. A plan of economy with table, appendix, and memorial, containing propositions for the management and supervision of the forest and the disposal of the forest products, must also be made. In other words, a working plan is

made.

The forest map is made on a scale of 1:8,000 by measuring in a great many lines, which, with the assistance of some already staked headlines, are measured off, with help of the compass, at 100 meters' distance from each other and traversing the whole forest. A change of that method is now under consideration in order to mark out, both on the map and in the forest, the permanent boundaries between the different tracts. The description is intended to form the foundation for the succeeding plan of economy, and shall include the result of the timber estimation, which is done either by districts or tracts, in cubic meters.

The plan of economy first defines the system of management and the rotation or the proper age of the forest trees. The age usually allowed to the two most common trees, pine and spruce, is about 100 years in the southern and not more than 150 years in the northern part. The time of rotation for the common birch found in pasture lands is from 60 to 80 years. The beech requires 120 to 140 years and the oak from 150 up to 300 years. Cutting or consumption is estimated according to the so-called compartment system introduced from Germany. To the plan of economy also belong directions for forest cultivation and drainage, building of roads, etc.

This forest division, carried into effect at the revisions and with a carefully pursued cultivation, creates a restocked forest of the greatest possible production for the future, but suffers the fault of giving, during the nearest periods.

a very uneven present production.

In Sweden there are now (1900) no suitable regulations for divisions for thinning, but there is a passing from an old and obsolete method to a better one under which the foresters adapt their own various proposals. Lately the domain department has brought forth a project for regulating the division of public forests for systematic thinning. This proposition differs from the regulations for tract cutting now in force therein that the map of the forest is made on a scale of 1:20,000, that only trees which are disposable as timber are estimated in regard to number and cubic contents, and that the quantity of the yearly consumption is based on the amount of timber and the time of

rotation, according to the future relation between the production and the amount of timber which is expected to exist in the forest after it has been

thoroughly renewed and the production raised to its highest point.

When taking out the yearly timber production, the forester, as a rule, first removes the trees that have blown down and those which are dry and otherwise injured. Next of importance is to remove standing seed trees or other older trees which prevent the growth of the younger trees. The cutting must thereafter be extended to old woods which have become thin and sparse, and in their place new tracts with a better growth must be established. The thinning may now begin in such young and middle-aged forests that are too dense, and last of all, the better and older forests are attacked in order to complete the yearly production. In mountainous regions and other districts where the forests are liable to suffer from storms, it is customary to let that part of the forest remain the longest which forms a kind of defense against the fury of the tempests. In other words, the cutting proceeds against the direction from which the storms come with the greatest violence.

When not all trees in an older forest shall be felled at the same time, the forest supervisor has each separate tree marked, the mark being placed both on the trunk and near the root or on a larger root branch, so that he can tell, after the cutting is over, whether other trees than those that were marked have

been felled.

## 10. Utilization of the Forests. (Lumbering, etc.)

Lumbering is usually done by hired laborers under the supervision of a forester, and they are paid either by the day or by the piece as is the case when cutting cord wood, timber, beams, rafters, etc. When lumbering is done on a large scale the laborers are organized into crews and each crew employed on a certain tract which in Norrland is called "shifte," assigned for harvesting. After markings have been made for the participants of the community wood they usually see to their own lumbering. When sale of timber has been made in the larger public forests, the lumbering is almost always done under the charge of the buyer. Where forest economy is managed with care and on a large scale, it has been found prudent to employ permanent laborers who perform the lumbering and other forestry work, such as replanting, drainage, inclosures, etc.; they also assist in guarding the forest.

Winter is usually the time for lumbering, as there is then no agriculture in progress, and it is then most convenient to get the timber out of the woods. Not only is the supply of labor greater during the winter, but there are also other conditions making this time of the year the most suitable for lumbering.

During the winter, cones from coniferous trees (with the exception of the silver fir) should be picked, as this is naturally most easily done in places where trees have been felled. As wood for fuel ought to lie over at least one summer to dry, it is more profitable to cut one winter and to haul it away the next.

In the great forests, far from the haunts of men, from which come the immense lumber piles and timber stores that line the harbors of Norrland's seaports, and where a profound silence reigns during the summer, is such life and activity during the winter months as can scarcely be imagined unless one has witnessed it. A large number of men from the surrounding district are then busy at work cutting and hauling timber to the nearest landing. The laborers live in cabins (kojor) erected near the timber tract; for the horses, temporary stables are built.

In felling the trees, the laborer must see that the trees do not fall in such a direction that trees standing near may suffer therefrom, that as little wood as possible is lost in chips, and that the work progresses as rapidly as possible. When trees are felled with an ax, two incisions are made on opposite sides of the trunk, and about 2 per cent of the wood is lost in chips. This is one of the reasons why crosscut saws are now commonly used both for felling the tree and for trimming. Even in northern Norrland the stumps are not allowed to be

more than 2 or 3 decimeters in height.

The ax that the wood chopper uses to trim off the branches and to split the trees varies greatly in form in different districts. The one now commonly used is the American ax, the material of which is quite thin, but thicker toward the middle, so that the ax is less liable to fasten in the wood. The saws are also of different constructions. The two most widely used is the straight crosscut saw and the curved or crescent-shaped. The teeth of saws differ, however, greatly in their form and distance from each other.

The more difficult and consequently more expensive it is to haul the timber from the woods, the less value it has. A thoughtful forest owner will therefore endeavor to provide easy and suitable means of transportation, as he will in that manner raise the value of his timber to a considerable extent. To build good roads through the forests is one of the more important duties of the forest economists, and large sums have been expended for this purpose during the last years. In Norrland and Dalarne the forest roads can be dispensed with, as the snowy winters there make it both cheaper and more convenient to make only temporary so-called winter roads leading directly from the cutting places to the landing statious. Many millions have been expended in the northern provinces for the clearing of the rivers in order to make the floating of the timber more easy. In the State forests in southern and central Sweden much work has been devoted to road building.

Floating, however, constitutes the most important way of transporting timber. Without driveways it would be impossible to make the vast forests of northern Sweden available. After the timber has been hauled, during the winter, to the nearest stream on which floating can be accomplished, the logs are measured in regard to thickness and length and provided with the owner's mark, whereafter the floating begins with the spring flood. The timber is then brought through dams, canals, smaller waters that have been cleared, smaller lakes, etc., down to a larger body of water or a river, to which, in this manner, many different rafts of logs have been floated through other water courses which empty therein. Thousands of logs float farther down the river until they are caught in a boom, where they are sorted according to their marks and brought to the adjacent sawmills or fastened together into different rafts to be further transported over larger waters. In the rivers, which are cleared and provided with different kinds of constructions, the logs are usually allowed to float separately, but much

work is necessary before they all reach their places of destination.

The driveways are divided into districts, and these are subdivided into "shifts" or tracts, and in these certain persons are appointed whose duty it is to put out into the water all logs that float to the shore. When the logs get stuck in a waterfall or obstructed in some other manner and form a log jam, the men must hurry out to break the jam, although there may be danger to life. The men are under the supervision of "floating foremen," and the latter under a floating chief. By knocking and scraping against each other the logs are damaged in the ends, and therefore about 30 cubic meters are allowed on each log

when the final transaction is made.

The total export of wood products from Sweden in 1897 amounted to \$97,682,700. Of this amount more than half, or \$49,153,356, was received for exported wooden wares, which, therefore, in regard to value, form the chief export. Of raw material exported, boards and planks amounted to \$34,946,000, beams and rafters to \$1,081,000, ship timber, masts, etc., to \$1,080,000, and pit props to nearly \$1,865,000. Of manufactured wooden ware, wood pulp was exported to a value of \$6,000,000, turners' and carpenters' finished products to a value of \$2,081,000, and matches to a value of about \$1,811,000.

The export has increased to a great extent, especially in regard to boards and planks, as can be seen by a comparison between 1871 and 1807.

the former year the value of the export of these articles was only \$12,216,000, while in 1807 it amounted to nearly \$35,000,000.

The cubic bulk of timber which brings this income amounts in round numbers to 7,000,000 cubic meters of raw material and 1,200,000 cubic meters of manufactured wooden ware. While the largest part of the exported raw material is composed of coarser and relatively dearer dimensions, the largest part of the raw material exported is less expensive material (pulp wood, staves, etc.). Similar timber enters also largely into export articles not classed as wood products, such as paper, pasteboard, etc. The amount of paper, pasteboard, etc., etc., made from wood pulp is considerable.

The wood-pulp industry of Sweden consumes nearly 2,000,000 cubic meters of raw material. To the amount of wood charcoal that is used for mining purposes the woods contribute 4,500,000 cubic meters. But the very largest amount is used for the country's own needs as fuel, buildings, fences, glass works and brickyards, railroad ties, telegraph poles, boats, etc. More than 28,000,000 cubic meters of timber are at the present time taken from the Swedish forests every year, which is generally considered more than can be cut without lessening the forest capital itself, which nevertheless is far from being as great as would be required if all forest-bearing land yielded its greatest possible production.

- 11. LAW PROMULGATED JUNE 29, 1866, REGULATING FOREST CONSUMPTION ON LANDS LEASED BY THE STATE IN THE PROVINCES OF NORBLAND AND KOPPAREERS, AND STILL IN FORCE.
- 1. On lands in the provinces of Norrland and Kopparberg, of which hereafter the Crown may grant a lease, the owner shall have no other right to the forest of the estate than to take sufficient timber and fuel for household purposes, without survey; and, after survey and marking by the Crown officers, to appropriate and sell all that, in addition thereto, may be felled without injury to the forest. Neither may, for the purpose of cultivating the soil, the forest be felled otherwise than above is indicated, unless the owner, as hereafter stated, has obtained special permission thereto from the governor of the province.
- 2. What is prescribed in the foregoing section for estates arising from settlements on which the Crown may hereafter grant a lease shall also be in force for such estates arising from settlements on which lease already has been granted, and where the prescribed duties of building and cultivating have not been fulfilled within the time specified; and our respective governors of the provinces shall, in order to ascertain whether such is the case or not, as soon as convenient, and at least within the time when, according to existing rules heretofore, settlements ought to be inspected, order an inspection to be held in the order prescribed, at such settlements on which the Crown has granted the lease, before the issuing of the regulations, and the accord hereof to be transmitted to our governor of the province. Should at any settlement the prescribed duties of cultivating and building not have been fulfilled within the time heretofore specified, our governor of the province shall, by a special resolution, from which appeal may be had in usual order, and where there can be no question of disposeession, declare that, since the settlement, when the duties of building and cultivating have been fulfilled at some future period, the owner will only have such right to the forest as is stated in § 1.

3. It shall be specially stated in all the resolutions by which a settlement is transferred under the title of "skattehemman," or copyhold estate, whether the owner shall have full right to the forest belonging to the same or only enjoy the limited right mentioned in section 1; this ought to be recorded in the ground-rent book.

4. Any owner of copyhold estate mentioned in sections 1 and 2 who shall infringe the right to the forest of the estate given him by this law will be punished as for unlawful felling of forest, as per the twenty-fourth chapter of the penal law. The officers of the forest crops, as well as the foresters, shall be entitled to prefer charges against such offenders, and to seize unlawfully felled timber. The party who makes the seizure shall receive 20 per cent; the balance shall go to the forest-planting funds.

## 12. FORESTRY INSTRUCTION.

The principal institution in Sweden for instruction in forestry is the Royal Forest Institute, at Stockholm. It is pleasantly situated on a rise of ground in a grove close to the bridge as one turns from the city to enter the Deer Park. The course of study occupies two years. Tuition is free. Candidates for admission must have sound health, be neither under 18 nor over 28 years of age, and must have passed an examination such as admits to the university, which includes a knowledge of the German language and either the English or French. Among the studies pursued are the classification and division of forest, forest culture, and the quality of timber, forest technology, climate and soil, forest botany, forest insects, art of hunting, mathematics, forest and game laws, map drawing, etc. Four pupils receive from the State a stipend, as assistance, of 250 rix-dollars each per year. Graduates are regarded as members of the forest "stat," or corps, and are in the line of promotion therein, their first appointment being that of assistant chief of range, which is generally received immediately after graduation and opens the way to their earning about 600 rix-dollars a year in surveying and other work connected with forest. In ten years they can be promoted to "Jiigmiistare," or chief of range. Above this last office is the position of forest inspector, which has been created for three or four years. Fifteen thousand three hundred rix-dollars are annually appropriated for the support of the institute. There are four active instructors, namely, the director and three "lektors," or teachers.

Besides the institute there are, in Sweden, six forest schools which are principally supported by the Government and located at the following places:

Tierps, Upsala County; Ombergs, Östergötland County; Böda, Calma County; Daniels Lands, Christianstad County; Hunneberg, Elfsborg County; and Silbre, Wester Norrland County. Tuition at the forest schools is free, and, besides, 10 pupils at each school receive board and lodging free. The course of study lasts eight months. Some knowledge of the common branches taught in the folk-schools is all that is required for admittance. A graduate of a forest school can be employed as a forest watchman at about 300 rix-dollars per year and use of a dwelling and patch of ground.

### THE FOREST INSTITUTE-1TS OBJECT AND ORGANIZATION.

## [Regulations issued May 25, 1860.]

1. A suitable locality in the royal park, near Stockholm, shall continue to be placed at the disposal of the Forest Institute, embracing lecture rooms, library rooms for collections, the director, one teacher, and one porter, also necessary ground for nursery, tree planting, and target ground; a suitable forest in the vicinity of the city shall also be placed under the regular care and management of the institute, in order to impart to the pupils practical knowledge herein.

2. In order to teach the pupils surveying, appraisement, and the technical terms of the forest, they shall, during a certain time every year, be employed in forests suitable for the purpose, under the direction of the teachers; separate

funds will be assigned for this purpose.

3. To assist the pupils during their stay at the institute, a certain number of stipends, the amount of which will be separately fixed, will be assigned to such indigent pupils who have made themselves deserving of the same through in-

dustry, skill, and good conduct.

4. The institute is to be managed by a director, appointed by His Royal Majesty, and the director, together with four teachers, also appointed by His Royal Majesty, will furnish the instruction, viz: One, the care and management of forests; one, hunting and forest laws; one, natural history; and one, mathematics. These teachers will be entitled to their years of service as merits equal to the forest and chase officers of the Kingdom, the two latter only in case they have graduated at the Forest Institute. For the appointing of director, as well as teachers, the forest administration will nominate candidates. At the institute is also a porter, appointed by the director, and may by him be removed.

5. The course of instruction shall embrace mathematics and natural history to the extent required for the superintendence of forests and the chase; knowledge of the regulations for the forest and the chase, bookkeeping, and of the forms for forest accounts; hunting; theoretical and practical knowledge of forest appraisement; cultivation of wood and forest technology; as well as expert-

ness in surveying, map drawing, leveling, and shooting.

6. The course of instruction will be continued during two years, counted from the commencement of the month of June every year, and be so arranged that fully educated pupils may yearly graduate and new ones be admitted in

their place.

7. Pupils who wish to obtain certificates of having graduated shall, having previously undergone a probation at a public examination, manifest sufficient knowledge and skill in all the branches which they have been taught at the institute. In order to obtain a certificate for forest management, the pupil shall prove himself to have satisfactorily constructed a map, with regular plan

of forest surveying and cultivation.

8. The instruction shall continue during the whole year, with the exception of three week's vacation during Christmas and one week after the yearly examination, and shall be thus regulated, that the pupils acquire from the commencement of October until the end of May, theoretical and such practical knowledge as local circumstances at the institute admit of, and that during the summer months the pupils are occupied in the forests of the Government and under the direction of the teachers with surveying and estimating of forests and with the most usual modes of the cultivation, care, and felling of trees.

9. Every year, at the commencement of the month of June, the pupils shall be publicly examined in all the subjects in which they have received instruction. The pupil who, having previously undergone a probation, proves himself at the examination to possess the knowledge and skill mentioned in section 7 may, without regard to the longer or shorter time he has been at the college,

receive due certificate.

#### THE DIRECTOR OF THE FOREST INSTITUTE.

10. The director ought to have made himself known as possessing knowledge and experience of forest managing and shall live within the locality of the institute, in order properly to exercise his functions. His duties shall embrace not only the administration of the institute and the responsibility of its operations and of the completeness of the instruction, but also to promote the development of and spread throughout the country the science of forest management.

It shall consequently be the duty of the director-

(1) To quarterly collect from the treasury of His Royal Majesty and the realm. at the request of the forest administration, the funds assgined to salaries and maintenance of the institute; to dispose of these funds according to regulations, and for each calendar year account for their disposal, which accounts shall be delivered before the end of the next following February to the forest administration for auditing;

(2) To watch over the care and maintenance of the ground, buildings, nurseries, archives, library, collections, tools, implements, and other movables of the institute, and to see to it that complete lists of the same are made out and always at hand. He shall, however, according to what is stated below. have right to suitably distribute between the teachers the administration and care

of collections, tools, and the movables;

(3) Having examined the certificates produced and the amount of knowledge possessed by the candidates for admission to admit them as pupils, and, according to statements of the teachers, separately for each branch, issue certificates to pupils who have finished their course, and to propose to the forest administration the distribution of the assigned stipends among such pupils who shall be considered most deserving of the same;

(4) To issue regulations as well for the maintenance of good order and morality within the institute as for the suitable course of teaching and the manner of imparting the same, for which purpose the director shall make out a regular table of instruction, so that the business be properly distributed between the teachers, and the time advantageously employed to the benefit of the pupils;

(5) To himself instruct in one of the head branches of forest economy as well as, business permitting, be present at the preliminary examination of the

pupils in the other branches;

(6) To endeavor in every possible manner to promote the knowledge and spread of an improved forest economy and management of the chase within the Kingdom, for the purpose of which he must keep himself informed of the progress of the science and technical terms of the forest, even in foreign countries, and to write and publish pamphlets on the subject whenever circumstances require;

(7) To report to the forest administration partly such business which requires the decision of His Royal Majesty and partly such steps in regard to an improved forest economy and management of the chase within the Kingdom

which may be found necessary;

(8) To make such reports or give such information concerning the forest economy and the management of the chase which the forest administration may demand, as well as to render to the same yearly accounts of the operations of the institute; and

(9) To give the porter instructions in regard to his attendance and other duties at the institute.

### THE TEACHERS AT THE FOREST INSTITUTE.

11. The teacher of forest economy ought to have graduated at the institute with honors, and thereafter, on his own responsibility, managed a forest district, and as his services are constantly required he ought to live within the institute. This teacher shall-

(1) Instruct and examine in all the branches of forest economy in which the director himself does not teach; and, besides, practically instruct the pupils in surveying and estimating of the area of forests, and the cubic contents of trees, construction of maps, valuation of soil, growing and felled timber, to collect and preserve seeds, the laying-out and care of nurseries, forest growing and planting, the position of seed trees, clearing, to quench quicksand, felling of trees, assorting and marking of timber, as well as to conduct a party of the pupils in the forests for practical measuring, estimating, and dividing of forest land;

(2) To have under his care, and to account for, the archives, library, and movables of the institute, with the exception of those for which the teacher of the chase and regulations is responsible;

(3) To manage the economy of and account for the forests assigned to the

care of the institute;

(4) To assist the director in watching over that given instructions are followed, and in maintaining industry and order among the pupils; and

(5) To take command of the place in the absence of the director.12. The teacher of the chase and regulations shall have graduated at the institute with honors, and thereafter served at the forest and chase corps of the Kingdom. This teacher shall-

(1) Instruct and examine in the knowledge of firearms, shooting, the theory and technical terms of the chase, forest and chase regulations, and bookkeeping;

- (2) Assist at the practices in forest economy, and conduct, during the summer season, a party of the pupils on practical measuring, estimating, and dividing of forest land:
- (3) To exercise the pupils in target practice, and also, when there is an opportunity of hunting and driving game, instruct the pupils in the care of wolf pits, traps, nets, and cages; the making and care of hunting implements, the keeping of forests, as well as to prefer charges against poachers and other offenders against game and forest laws; and

(4) To take care of and account for the tools and collections of models of the institute, as well as of the forest and hunting implements, and of what

belongs to the target ground.

13. The teacher of natural history ought to have made himself known as

thoroughly well acquainted with this science. His duties shall be-

- (1) To instruct and examine in those parts of physics, chemistry, and mineralogy which are required for the knowledge of forest climate and soil, in general, and forest botany, and in zoology, as far as this branch of knowledge is connected with the forests;
- (2) To instruct in the manner of preparing herbaria, and of stuffing and preserving animals and insects;
- (3) To conduct the pupils on mineralogical and botanical excursions, and to practice with them the examining of soil and plants;
- (4) To instruct the pupils during visits to the museum of the Academy of Sciences; and
- (5) To take care of and account for the zoological and botanical collections of the institute, and to make out complete lists of the same.
- 14. The teacher of mathematics ought to have made himself known as thoroughly acquainted with this science. This teacher shall instruct and examine in arithmetic, algebra, planimetry, stereometry, trigonometry, conical sections, geometrical constructions, descriptive geometry, general and forest architecture, elements of mechanics, and theory of the construction and use of mathematical instruments. He shall besides practice with the pupils the drawing and copying of maps, calculating of areas, sketching maps, surveying, construction of buildings and roads for forest purposes, with estimates of materials and labor, measuring of cubic contents, and adjustment of instruments. [There are at present six teachers in the institute.]

## PUPILS AT THE FOREST INSTITUTE.

15. In order to be admitted at the forest institute application shall be made to the director within the middle of the month of May [now before the 1st of

July] and the following certificates annexed to the same:

That the applicant is at least 18 and not above 28 years old; that his constitution is good and faultless, and not affected with any kind of incurable disease; that he has always conducted himself well; that he either has passed such examination and obtained centificates of approval in mathematics, natural history, and Swedish grammar, which entitles him to enter the universities of the Kingdom, or that he has been examined by the appointed teachers at any of the elementary schools within the Kingdom in each of these branches, and found to possess sufficient knowledge therein to enable him to graduate from the school; also, that he has, during at least one year, with some forester practiced and acquired sufficient skill in the economy and surveying of the forest.

16. Applicants whose applications are complete, and who consequently may expect to fill the vacancies at the institute, must publicly and in the presence of the director be examined by the teachers in arithmetic and algebra, planimetry and stereometry, general botanies, and zoology; also, to write a Swedish theme.

17. Those exhibiting the greatest knowledge shall have the preference of

being admitted to the institute.

18. At the commencement of every year the director shall propose to the forest administration for receiving of stipends those of the pupils who are in need of assistance and have shown themselves most deserving of same through industry, skill, and orderly conduct.

19. The pupils shall obey the orders of the director and the teachers, orderly and decently conduct themselves, follow the regulations at the institute, and

attentively and industriously profit by the instructions.

20. Should the pupil disobey the orders of the director or the teachers, create any disturbance at the institute, conduct himself in a disorderly manner, or neglect his studies, he shall receive warning from the director. Should he not then change his conduct, but continue his offenses, the director shall, after having consulted the teachers, send him away from the institute. [There are now a higher and lower course at the institute. For admission to the higher course applicant must have graduated at the forest school, Omsberg.]

### THE FOREST SCHOOLS-THEIR OBJECT AND ORGANIZATION.

21. Suitable localities, large enough to permit both teachers and pupils to live there, shall be placed to the disposal of the forest schools at such places as will be especially determined upon.

22. To a certain number of pupils, unable to maintain themselves at the school, sufficient assistance shall be given, according to what is therefor spe-

cially prescribed.

23. The forest schools shall be managed, under the superintendence of the nearest chief of range, by a teacher appointed by His Royal Majesty the King, after having been proposed to the situation by the governor of the province and with the approval of the forest administration; this teacher shall be assisted

by a ranger, nominated by the forest administration.

24. The instruction at the forest school shall embrace the first four rules of arithmetic and the rules of proportion in whole and decimal numbers; knowledge of scales for plan drawings, as far as required for making of maps and measuring distances; knowledge of square and cubic measures with practical application at the measuring of the extent and contents of surfaces and solid bodies; knowledge of the nourishing organs of the forest trees and of their food and the natural conditions for their thriving; knowledge of the most dangerous insects of the Swedish forest and of the manner of destroying them; the chief principles of rational forest economy, and knowledge of the rules existing for the peace and keeping of forests, marking and carrying of timber, hunting, and also of the legal form for entering charges. The pupils will also be practiced in marking out and measuring of forest lines; tilling places and sowing fields; calculating of the cubic contents of trees and timber; the position of seed trees; sowing by hand and planting, as well as the preparing of the soil for forest growing; collecting and assorting of forest seeds; clearing and cutting, assorting, and piling of timber; marking cattle and making out of grazing lists; laying up and keeping patrol lists; making out lists of unlawfully felled timber on which embargo has been laid; monthly reports and service accounts; the trapping of beasts, and the grand chase.

25. The course of instruction shall begin on the 1st of October every year and continue until the middle of the following June, during which time all the respective subjects and exercises shall have been taught to the pupils, whereafter they are publicly examined in the presence of the chief of range in order

to ascertain the knowledge and skill they have acquired.

26. The pupil who has satisfactorily passed the examination is entitled to receive certificate of approved skill, issued by the chief of range and the principal of the school.

## THE TEACHER OF THE SCHOOL.

27. For the competency as teacher at the forest school, which office entitles him to count as many years of service within the forest and chase corps, the applicant shall have graduated at the forest institute and received certificate of approved knowledge, besides having been forest manager on his own responsibility. This teacher is the chief in command at the place, the principal of the

school, and accounts for and is responsible for the proper management of the school. He shall, consequently, quarterly receive the funds assigned to the school, use them with judgment, and yearly account for the same, which account shall, within the time specified in § 10, sec. 1, for the forest institute and for the object mentioned in the said section, be forwarded to the forest administration through the governor of the province. It shall, besides, be his duty to arrange the teaching and exercises to the benefit of the pupils; to keep good order and decent conduct within the school; to impart himself the theoretical knowledge, and to superintend and correct the exercises and work in the forest. He shall also render yearly report over the operations of the school, which is forwarded to the forest administration through the governor of the province.

### THE ASSISTANT.

28. The assistant must have made himself known as steady and orderly, to be able to write, and well acquainted with all kinds of forest works. He is subordinate to the direct command of the teacher; he has the care of all the implements and materials of the school, for which he is responsible and shall account for to the teacher; manages the school in the absence of the teacher, and is responsible that the exercises and works are properly done, and assists in keeping good order among the pupils.

## THE PUPILS OF THE FOREST SCHOOL.

29. Those wishing to be admitted to the forest school shall make their application to the principal in their own handwriting, with annexed respective certificate of a clergyman, of good conduct, and of good and faultless bodily constitution, and if the applicant has been in service, a service certificate; the applicant shall be able to read fluently Swedish and Latin letters and writing, write a legible hand, know the first four rules of arithmetic, and be from 20 to 30 years old.

30. Having examined the application and the applicants, the principal of the

school shall admit as pupils the most skillful and of best conduct.

81. The pupils shall obey the orders of the teacher and assistant, and observe industry, order, and good conduct. Should the pupil disobey the teacher or the assistant, disobey the rules of the school, be neglectful or disorderly in his conduct, or should he create disturbance, he shall receive warning of the principal; should he not then change his conduct, but continue his offenses, the principal shall send him away from the school.

## PRIVATE FOREST INSTRUCTION.

- 32. For the establishing of forest schools in the respective provinces of the Kingdom, and the education of competent assistants for managing private forests, the Government will yearly contribute as far as the funds will permit, provided the communities which apply for such assistance shall fulfill the following conditions:
- (1) That the community shall place requisite locality to the disposal of the school, furnish the teacher as well as the pupils with apartments, and pay for the maintenance of the school;

(2) That the organization of the school and the proposed rules for its operation has been sanctioned by His Royal Majesty; and

- (3) That the operations of the school, of which a yearly report shall be made to the forest administration, shall be exercised under the superintendence of the nearest chief of range and the forest administration.
- 13. REGULATIONS FOR THE DIVISION OF THE PUBLIC FORESTS FOR THE PURPOSE OF SYSTEMATIC ECONOMY.

## [Issued June 29, 1867. Drawn up by Mr. C. A. T. Björkman.]

1. The dividing of a forest consists in its delination on a map with description and economical plan based on careful estimates having a view to the future of the forest and the highest reasonable income that can be derived from it.

2. The allotting is effected so that there may be introduced, as circumstances require, high-forest culture with tract cutting or systematic thinning, or, never-

theless, for applying low-forest culture.

3. Forest is divided, according to its extent and nature, into more or less Smaller forests, however, may each comprise only a single block. block is divided into divisions or parcels, whose limits are generally determined by natural formation or permanent marks, and these again into subdivisions, including differences which have been observed in surveying, delineating, and estimating the forest.

4. In the surveying is noted only such differences of the forest stand and grounds as, according to the above-mentioned method of forest work, exercise some influence thereon; and with the objects and differences noted at the surveying shall be added on the map the boundaries exactly to correspond with the When a correct map happens to have been previously drawn up, a copy of it, with requisite additions, shall be used in the allotment of the forest.

5. The map of the forest shall be drawn up on such scale as allows requisite

clearness in specifying what should be noted thereon for the economy of the

forest.

6. The forest is estimated in cubic feet or in cords of 100 cubic feet (Swedish) solid measure, except when the allotment or dividing takes place for thinning (applicable to heavy timber), when the estimate is made by number or The estimate ought, as near as possible, to correspond with the reality. but had better be too low than too high.

7. The description shall include all important matters which, at the execution

of the allotment, can be of weight for the economy of the forest.

8. The plan of management is drawn up for a period of twenty years and ought to include the requisite prescriptions as to the manner of working the forest, rotation time, consumption, culture, and the other means of administration which have not already been prescribed by the public statutes.

9. Tract cutting will have the preference, as a manner of working the forest,

except where, from local circumstances, it is unsuitable.

10. The rotation period should be extended as far as is necessary for raising the different sorts of trees and forest production which are counted on from the forest, but without occasioning such delay in consumption that any part of the forest shall thereby receive injury or deteriorate in value.

11. The estimate of what shall be consumed during the period of division or allotment shall be based on the forest's growth, the extent of ground, and on the known quantity of wood and timber, ascertained by careful calculation, whereof no more may be taken out than corresponds with the growth of the forest during the said time.

12. During the last year of the division period a revision is made for searching out the changes the forest has undergone and for drawing up the economy

plan for the following division period.

Moreover, the Government having authorized the administration of forests to issue regulations which may be required in conformity with the above principles, the administration of forests has found it reasonable to ordain as follows:

1. The method of working a forest, mentioned in paragraph 2, above, can, where necessary, be introduced on the same block, though on separate parts thereof; for example, forest-grown rocky hills, moss tracts, or other land on which systematic thinning seems an object, also such tracts as seem suitable for low-forest culture, may enter into the same plan of economy with tract cutting,

where the grounds have not sufficient extent for more than one block.

2. In dividing the forests into blocks, regard is had that as far as possible the older, middle-aged, and young forest stands are in suitable relations to each other, also that the block obtains a proper form. The ground allotted in the block for tract cutting may not exceed "6,000 quadrat ref" (1,306 acres). With the introducing of systematic heavy-timber thinning, block allotment is fixed according to the means for floating, and accordingly a connected forest of even 12,000 acres may be reckoned to a block, providing the product therefrom can be floated on the same water course. Lands whereon low-forest culture is introduced, and which are not entered in the economy plan that has been fixed for tract cutting are divided into blocks of at most 120 acres. When blocks are not situated apart, they ought to have natural boundaries, as water courses, marsh, and rocky-hill extents, etc., or nevertheless be bounded by highways or fences; but if such do not exist, they are separated by means of a line cleared through the forest to the width of 20 feet.

8. In dividing the block into parcels or divisions, the principal object of which is to facilitate "orienting" or astronomical directions, and clearness in description, likewise attaining an approximating homogeneous stand, the same is to be observed concerning their boundaries that has just been mentioned in respect to blocks. Nevertheless the separating lines may be cleared only the width of 10 feet. The forest land of a division should not exceed 200 acres, except in forests which are allotted for merchantable or heavy timber, within which, as comprising the division or parcel, may be reckoned only those parts divided by natural boundaries. Connected forest blocks of 200 acres extent or less constitute only a division or parcel.

4. The surveying of a forest, where it is so required, may be based, as heretofore, on parallel lines running in right angles, or over valleys and summit extents in oblique direction. Nevertheless hereafter these lines ought not to be cut or cleared more than is necessary for making them visible, but shall instead be blazed to a breadth of 10 feet. In the allotment of the forest for the purpose of systematic heavy-timber thinning, smaller impediments, unless

sketched on the map, shall only be noted in the description.

- 5. Forest maps shall be drawn up on a scale of  $\pi_{000}$  of natural size, with these exceptions: Lands allotted for heavy-timber thinning shall be mapped on a scale of 20000 of natural size; lands for low-forest culture, according to separate plan of economy, shall be mapped on a scale of  $\frac{1}{4000}$  of natural size. A separate map is drawn up for each block. On the just-mentioned maps of TODOO scale two or three blocks may, nevertheless, be contained, according to circumstances. When the forest is composed of several blocks, with map for each, a comprehensive map of the whole forest may be prepared, showing the relative situation of the blocks, on a scale of  $\frac{10000}{10000}$  of natural size; and with heavy-timber thinning  $\frac{1}{100000}$  of natural size. The map of the floating courses, below mentioned, are drawn on a scale of 50000 of natural size. When a comprehensive map on the scale aforementioned has been prepared, the floating courses should be shown thereon, and in such case no separate map of these is needed. The maps shall be well and plainly drawn, colored, provided with names of bordering estates, forests, or the like, written around, title, scale, and north direction whereon the variation is observed. The cleared or blazed lines and the separating lines pertaining to the project for period allotment or division shall be drawn on the map; also the yearly clearing or cutting bounds in the first period; the latter, nevertheless, only on maps of forests which are not under the immediate administration of the forest corps.
- 6. The valuation or estimate of the forest is undertaken in conformity with the recognized principles of forest science separately for each subdivision, with regard to differences of ground and forest stand.

7. The description consists of general and stand description.

8. The general description is based in certain parts on stand description, and shall under separate titles account for—

History of the changes which the forest has undergone financially, state and administration of possessory right, wherewith, if practicable, the official proceedings may be introduced on which the changes or improvements have been based, and the influence of these, of forest fires, of injuries by storms and the like on the forest's present condition.

The uses or service with which the forest, from one cause or another, is charged; how far these are based on culture or resolutions, and in the latter

case what, also, the influence on the forest which the uses produce.

Boundaries on adjoining stranger owners; also, when the forest belongs to homestead or farm, on the thereto belonging arable and pasture land; wherewith for that case any land which did not before belong to the forest, but which is included in the allotment, with the reason therefor, ought separately to be given, regard being had to what is prescribed in royal forest regulations of the 20th June. 1866, section 38.

Nature of the forest land, nature of the forest stand in general, according to

stand description.

Block allotment or dividing, and motives for the same.

Prevailing winds, and their effect.

Depredations and wastes: to what extent the forest is exposed to such, and their nature.

Watching or care; how this is ordered and how far sufficient.

Pasture and autumn mowing, and what effect such use has on the forest.

Selling of the produce of the forest, where this can come in question, wherewith, when this is dependent on opportunity of floating, a map of the floating

course in the forest and in its neighborhood is annexed, providing such map can be had without separate survey.

With several other relations which, in and for the forest administration, can be of weight, which like the above-mentioned ought to be stated under separate titles.

- 9. The description of the stand. Table No. 1, 1, which is prepared in tabular form, and which, with the exception of area reports, composed in proportion to the progress of the survey and valuation, contains the following columns:
- 1. Division, or parcel (in the Swedish "skiften"), wherein is introduced the name of the division, in what block it has been divided, also the letters whereby these are denoted on the map.
- 2. Subdivision, in which column is placed the letter whereby the differences of the forest land and forest stand have been denoted on the map.
- 3. Extent, wherein the area is given in new measuring (quadrat ref and quadrate poles), and which column is subdivided in two, namely:
- a. Forest land, where regard is had to the area of forest-bearing ground, the subdivisions are given as
  - a. Forest-grown, or-
- β. Bare, under which latter designation may be introduced as well such land as produces only bushes and scattered trees as that which shall be cleared, during the division period for effecting satisfactory regrowth: also—
- b. Impediments and land not regarded sufficiently fertile for forests, under which is noted such rocky hills, marshes, mosses, etc., which can not be counted on to bear forest; also such sand holes, ways, and tilled places, etc., whereon forest will not be grown.
- 4. Land where under the subdivision is described with regard to the quality of the land and soil.
- 5. Situation, where the situation is described as well with regard to moisture as in relation to prevailing winds.
  - 6. The forest, which column is subdivided into four:
- a. Sort of trees, wherein is introduced the kind of trees the forest stands consist of, with special remarks as to the prevailing—
- b. Growth, closeness, windfalls, previous treatment, etc., where a fuller description of the forest stand is given, as well as how the same seems to have been treated previously.
- c. Amount of production, wherein is noted the number of cords, at 160 cubic feet (Swedish) solid measure, which the growing forest contains.
- a. By quadrat ref (say 10,000 square feet) in whole and tenths of cords, and—
- β. By subdivision in whole cords; or nevertheless with heavy or merchantable timber-thinning number of sticks per 10,000 square feet and in the whole subdivision; also—
- d. Age class, wherein is introduced the prevailing ages of the forest stand, designed to show twenty-year-age classes, from 1-20, 20-40, 40-60 years, etc., whereafter, under the title of treatment of the stand during the division period (Tables Nos. 1, 2), follows:
- 7. Manner of working the forest, in which column is noted how far the stand shall proceed under allotment of tract cutting, or if thinning or low-forest culture should be there introduced; and—
- 8. Special means, including accounts of what ought to be adopted for the stand and land during the time for which the division is regarded to be effective, whereto shall be stated for the occurrence of help pruning or preparatory cleaning (or cutting) that amount of wood and timber which thereby, according to valuation, it is considered can be obtained per 10,000 square feet. The area, as well as quantity of wood and timber on the subdivisions may be summed up for every division or parcel, and a compendium introduced at the end of the table, wherein the whole of the area of the division or parcel and quantity of wood and timber neted shows the extent and bulk of the wood and timber, as well as a like compendium for the separate blocks to show the whole area of the forest and stock of wood in cords, or with heavy or merchantable timber thinning in timber.

To the description of the stand belong equally with tract cutting a compendium of the area which the different age classes occupy and the timber and wood mass each one contains. The description ought to be accompanied by the length valuations introduced in the forest.

10. The plan of management, of which a sketch ought to be made at the place of employment, so that the state of the forest in case of need may serve

for further direction, contains the following titles:

Manner of working the forest, under which is noted for every block how great part of forest land and quantity of wood and timber suits the one or the other of the mentioned methods of working the forest, and where so required the motives for the distribution of the forest ground between them.

Rotation, under which title separately for each block and method of working the forest with necessary motives may be introduced the age which, in general, it is thought the forest should have before the same can be consumed; whereto with heavy timber thinning under the title in question ought to be given the time.

Thinning time, during which thinning shall be done.

Consumption, which title for every block contains a calculation of what, during the whole of the twenty-year period, and during every year of the same, should be consumed; also report where and how consumption ought to be effected separately for forest adapted to tract cutting, thinning, or low forest culture; and there ought therewith to be added in tabular form, equally for the two foregoing titles, a compendium (Table No. 2), to which is added a report for the whole block and area, and amount of wood and timber summed together.

Forest cultivating (with special regard to sowing and planting), under which is noted in table form (Table III), by block division and subdivision, the area of the ground which during the period shall undergo complete forest cultivating (that is, clearing and raising forest again on the same place by planting or sowing, help culture, drainage, or other means for advancing regrowth, whereto may be noted the nature of the measures and steps which, in every case, shall

be adopted.

Project for the future division of the forest in respect to rotation and thinming periods, under which title, and with reference to the map of the forest, is indicated how it is considered, on the basis of the present state, the subdivisions ought to be united for hastening, and with least sacrifice of growth, to form suitable parts of the forest, corresponding with the twenty-year periods, separate report being made for the division of the ground in every block for tract cutting, thinning, or low forest growing.

Pasture and autumn mowing, under which is noted that which, with regard

to the subject, should be observed during the division period.

Means of facilitating the transportation and sale of wood and timber, under which title is given, as may happen, the needful scheme for ways, improvement of floating courses, disposing of the sorts of timber necessary for the region, etc.

Administration and care, wherewith representation is made of what, in said respect, ought to be adopted to secure suitability of plan of economy, therewith always complying with what is prescribed by the control book for consumption and forest cultivation.

11. Rotation with tract cutting is determined so that, after knowledge is acquired of the kinds of trees the forest will yield, and the growing time required for them, the area of the forest-grown land is divided into the number of twenty-year periods which said growing time contains; thus, with one hundred and forty years' growing time by 7, with one hundred and twenty years by 6, etc., whereby is ascertained the extent on an average can be consumed during every twenty years. Thereafter is examined through comparing the extent of this latter with the area which every age class takes up, how long time consumption in each and every class, beginning with the oldest, should require, wherewith also knowledge is gained of the age of the forest at the time of con-If then it is found that any essential part of the forest should be consumed first after that which has taken injury from too high age, so ought said examination to be renewed in a twenty years' shorter time, and in proportion to the therewith greater area of consumption, till its result shows that the forest can be consumed without losing in value when the last-mentioned time is adopted for rotation time.

With the introduction of regulated timber thinning it is seen, too, that the thinning time becomes so sufficient that a requisite number of trees may be able to grow to heavy timber by the time its thinning returns to the same

tract which it before went over.

As well rotation as thinning time should contain a certain number of twentyyear periods. Thinning time ought to be an equal part of rotation time.

12. The computation of what is taken out by tract cutting during the period is made thus:

Of that part of the forest-grown land allotted to tract cutting is assigned for consumption during forty years, two-sevenths of the area with one hundred and forty year, two-sixths or one-third with one hundred and twenty year, two-fifths with one hundred year rotation periods, etc. Out of the oldest age classes is taken off thereafter as great area as corresponds to said part. The forest which is found on the area thus taken off consists of that which can be consumed during forty years. Hereof is allotted for consumption during the first twenty years, out of the oldest or least growing stand, so great a part that the growing forest thereon, without including the grown, may attain to wood and timber mass equally with the growing forest on the other part, with reckoning or including that grown during twenty years. With the reckoning of growth, nevertheless, so-called growth tables may not be used unless the yearly growth of the stand running in the two-thirds is accepted as the average amount of what these during its filled age yearly grow.

In thinning of heavy timber is consumed, during the time adopted for thinning, all the timber found at the dividing or allotment besides half the quantity of heavy timber stuff which within the period of thinning can grow. Of this amount of wood and timber can thus be consumed during the twenty-year division period, with forty-year thinning time half, with sixty-year one-third, and with eighty-year one-fourth. In this way is taken off that part of the forest which shall correspond with the first twenty-year period, wherewith is observed, nevertheless, that only such land as bears heavy timber, or within the thinning period grows heavy or merchantable timber stuff, enters into the calculation, also that the part taken off does not more than twenty-five per cent exceed that which the land just mentioned, reckoned exclusively according to the area, shall have produced in the period. If it is found, notwithstanding such augmentation in area, the part taken or sold off does not contain the number of pieces of timber which according to the above-mentioned calculation ought to be had, the consumption is reduced to what the thus sold-off district for a period of twenty years can according to calculation give.

With other thinning the consumption's mass is calculated the same as is

mentioned in regard to tract cutting.

In the dividing or allotment for low-forest growing, with separate blocks, the area is divided by that number of periods which the rotation time contains, after which the amount of consumption is fixed according to the bulk of production on that part which corresponds to the first period, wherewith, if so required, the growth is reckoned in the manner above written.

In the consumption calculated in harmony with the above principles is not included what, according to estimate, is obtained through preparatory thinning and help pruning or clearing up of found windfalls and dry forests, so-called cleaning-cutting, likewise neither the utilizing of stumps, roots, branches, and

twigs.

13. When the division or allotment takes place in such forests as are mentioned in Chapters III and V of the Government's Forest Regulations of 29th June, 1866, with the dividing proceedings and maps shall special memorial be prepared, representing how far it is thought the forest, according to \$\$ 16 and 23 of said regulations, ought to be placed under the immediate care and administration of the forest corps, also if such is not the condition, the need of the products of the forest at the homestead or farm to which it belongs; also how far the forest is insufficient to supply said need, or nevertheless besides answering the requirement or leaving something over the same, and in the latter case the amount of surplus, also project for the forest rent, which according to \$ 17 ought to be reckoned, or that portion of clear gain which, on the principle of \$ 24 of regulations, can accrue to the resident occupied.

14. At the revision of the allotment which here above is ordained is drawn up accurate calculation of the older age classes, wherewith the map is in-

tended for introducing noticed changes.

Itevision shall also be had of the forest maps and plans of economy hitherto drawn up for the public forests, where these have been operative twenty years or more. Should the maps and allotment proceedings be found continuing suitable the drawing up of new ones may be dispensed with.

## 14. EXPLANATION OF CERTAIN TERMS IN SWEDISH FOREST SCIENCE.

Forest culture (skogs skötsel) includes the raising of forest, its treatment during growth, and its consumption.

By consumption of forest is understood the felling of trees in such a manner as to facilitate the effort of nature to produce new forest in place of the former.

Forest cultivating (skogs odling) is the raising of forest by means of sowing

seed by hand or planting.

High forest is that which is not intended to be consumed till the trees have

attained their maturity.

Low forest is that which comes from shoots from the roots or stumps of former trees and which may be consumed in a shorter time to give place to another similar crop—as, for instance, timber for hoops, hop poles, and the like.

Rotation period. The time required, commencing with the sowing, for a

forest to grow and mature.

Tract cutting is the felling of such a portion of the forest as, according to a previously prepared plan, has been allotted for a year's supply, or such a portion as can be cut with due regard to the rotation period.

Regulated thinning is a manner of consumption or of cutting which is generally practiced in forests where the trees in the same place are of different

age.

C. C. ANDREWS.

St. PAUL, MINN., June 19, 1990.

The Chairman. Will you state to us in your own way the forestry situation of Minnesota to-day, both as to condition and amount, so

far as you can?

General Andrews. We have what is called a forest preservation law, principally for the prevention of forest fires, which makes town supervisors fire wardens, also mayors of cities and village presidents. It is copied from the State of New York. This law was enacted in 1895 after the Hinckley fire, in which 418 people perished.

The CHAIRMAN. We looked over that territory yesterday.

General Andrews. Up to this year, according to the reports of fire wardens, the damage by forest fires in Minnesota annually averaged only \$32,000.

The CHAIRMAN. Since that law was enacted?

General Andrews. Since that law was enacted. The State has a forestry board which has been in operation for eight or nine years, under which we have acquired by grant of Congress 20,000 acres as a donation, which we call the burnt site forest. It is six years ago. That is rough country northwest of Ely. We have a thousand acres in Cass County, cut over land, given to the State by the late Ex-Governor Pillsbury. On that we have planted 230 acres, the forestry board has. The forestry commissioner, ex officio, is a member of the forestry board and also secretary. Two hundred and thirty acres principally of Norway spruce. We planted nearly half a million seedling trees from two to three years old. Those trees are in good condition.

The CHAIRMAN. When were they planted?

General Andrews. They were planted the past three or four years. They planted some this last spring.

The CHAIRMAN. Did you raise those or import them?

General Andrews. We raised the most of them. We imported 20,000 pine seedlings from Germany.

The Chairman. Has the Norway spruce been well tried up here?
General Andrews. The Norway spruce did well. We raised those from the seed which we sowed ourselves in the nursery there. So we

have had good success in planting. This little experiment shows that we can plant successfully at about \$6 an acre. We have in the Itasca Park 10,000 acres, which is called a forest reserve, but which is not to be treated for economic forestry purposes. It is treated as a park, as a place of resort, and the timber remains standing. We have got quite a good deal of original pine in that Itasca Park, the headwaters of the Mississippi. That is all that Minnesota has done in forestry.

The CHAIRMAN. You have quite a large amount of swamp land? General Andrews. The State has a large amount of land, but not forestry land. The State owns about two and a half million acres of

public land, of school and swamp land.

The CHAIRMAN. Isn't that largely spruce land?

General Andrews. There is some of it spruce land. There is considerable spruce on this swamp land, undoubtedly.

The CHAIRMAN. Has there been any survey or estimate of the

amount of standing timber on that?

General Andrews. There has not. The State makes an estimate of this timber just preceding any expected sale. If it is going to sell any timber, it estimates that timber that it expects to sell in the next few months. It never makes any estimate before.

Mr. Ryan. Would it sell the timber on the land except it has an

opportunity to sell the land?

General Andrews. It would sell the timber, yes. It would sell the timber as far as it can get a good price, without regard to the land. It retains the land and sells the land when it can.

Mr. Ryan. How much of the two million and a half acres that you

now have has been cut over?

General Andrews. I am not able to say.

Mr. RYAN. About?

General Andrews. I do not suppose that a twentieth part of it has been cut over.

The CHAIRMAN. Is timber on land sold except upon application

of some one for the purchase of it?

General Andrews. Yes; it is sold whenever the auditor, who is the land commissioner, thinks he can sell it to advantage. When he thinks the market is good he advertises it. He has cruisers sent out to explore and investigate and report to him the probable amount and he sells it at public sale—gives notice of several months and sells it at public sale.

The CHAIRMAN. Have you any information at all as to the proportion of the land that has forest on it, or spruce forest particularly?

General Andrews. No, I have not.

The CHAIRMAN. A good deal of it is what you call muskeg land?

General Andrews. A good deal of it is, yes. The Chairman. Would be partly spruce forest, I suppose?

General Andrews. Yes, sir.

The CHAIRMAN. We saw a good deal of land on our trip through the State, a portion of which they said was school land, upon which there stood a good deal of thickly standing small spruce which is not muskeg, where nothing grows. You haven't any basis upon which to make an estimate on that?

General Andrews. I will endeavor to give some estimate of the

spruce that there is in our forest.

The CHAIRMAN. Yes; I wish you would.

General Andrews. I compiled some figures for the Department of Commerce and Labor some six weeks ago. I would estimate, and my estimate would be simply from general knowledge without having counted the trees or measured them, of course, I would say that in the counties of Cook and Lake, which contain 2,828,000 acres of land, I estimate that there are 500,000,000 feet of spruce in those two coun-That is half a billion. That is at the rate of 5,000 feet to the acre on an average. I estimate that there are 100,000 acres of the 2,000,000 and over that will average 5,000 feet to the acre, either in pure spruce, which would be about all spruce or mixed with other timber. Then in St. Louis County, the next county west, which contains 2,091,000 acres of land, exclusive of water, I estimate that in that county there is 100,000 acres of spruce that will average 5,000 feet to the acre, making another 500,000,000 feet, which would be a billion feet for those three counties. Then we come to the counties Itasca and Koochiching counties contain 3,600,000 acres of I estimate that those counties contain 100,000 acres that will average 5,000 feet to the acre; that would be 500,000,000 feet. Beltrami County, next west, contains 2,750,000 acres, and that, according to my estimate, which I consider, while rough, as conservative, contains 100,000 acres, averaging 5,000 feet to the acre, amounting to 500,000,000 feet; that makes 2,000,000,000 feet in those counties. Then there are fourteen other counties that contain spruce, and which, in the aggregate, I estimate, contain 294,000,000 feet; that makes 2,294,000,000 feet for the whole State. That is board feet of spruce. The estimate in 1896 for spruce in the twenty-three forest counties was 1,050,000,000 feet.

The CHAIRMAN. They figure two cords to a thousand feet, I believe. General Andrews. There are three cords, I think, to a thousand feet, according to Mr. Roth, of Michigan. That is my recollection.

The CHAIRMAN. All of these mill men that we talked to gave two

cords to a thousand feet.

General Andrews. I am not competent to say how many cords there are, but I think Mr. Phillip Roth, of Ann Arbor, in his book on forestry, says that 3,000 feet constitute three cords—the same as three cords. That is what I understand Mr. Roth to say. I do not give my opinion about it.

The CHARMAN. All of these men here have given us two cords to a thousand feet. There is no way of getting that small stuff into board

feet.

General Andrews. In regard to poplar, if you want that——
The Chairman. Now, on this spruce first. You figure two million
thousand feet?

General Andrews. Yes, sir.

The CHARMAN. Which, at two cords to a thousand feet, would make four million and some odd cords?

General Andrews. Yes, sir.

The CHAIRMAN. Mr. Backus testified to us that in the Rainy Lake basin they had cruisers estimate practically all of that territory by forties, and had the figures, and they figured on the American side 11,000,000 cords of spruce. There is a wide variation.

General Andrews. Yes.

The CHAIRMAN. I suppose that would take most of the spruce in St. Louis County and all of the spruce probably in Koochiching County and a large share of the other.

General Andrews. I am giving my best judgment, without know-

ing the details.

The CHAIRMAN. I am simply calling your attention to this. You aimed to make a very conservative estimate? General Andrews. Yes.

Mr. Ryan. It is conservative, judging by what we saw northeast of Duluth in some places.

General Andrews. I presume so.

The CHAIRMAN. Of course, you figure a hundred thousand acres in these different groups, 10 cords to the acre, practically.

General Andrews. And yet, with my estimate, that makes quite a

number of million dollars' worth.

The CHAIRMAN. Oh, yes.

General Andrews. I have estimated that the forests of Minnesota are worth a hundred million dollars, and they are worth taking

Mr. Ryan. Cruisers that were with us said that a great many of the forties that we went through contained 25 cords to the acre of spruce. It was the predominating timber.

General Andrews. I should think so, fully that; because for fuel

the average wood will yield 18 or 20 cords to the acre.

The CHAIRMAN. What is the poplar up here?

General Andrews. It is the aspen and the large-leaf poplar; also what is popularly called the "Balm of Gilead" is a poplar, but whether that is used for pulp I do not know. I would think from its having so many knots that it would not be valuable for pulp.

The CHAIRMAN. None of the poplar up here is used for pulp to

any extent yet.

General Andrews. We have got a good deal of poplar and balsam, too.

The Chairman. Poplar used for pulp wood is used with soda up

to a small per cent.

General Andrews. My estimate of poplar in Minnesota—I could not specify the counties—but my estimate of the poplar is 4,014,000,000 board feet. That is very conservative, no doubt. In addition to that, the Balm of Gilead, which is a species of poplar, is another 1,189,000,000 board feet; balsam, 670,300,000.

The CHAIRMAN. You have no hemlock in the State, I suppose. General Andrews. We haven't any. It is quite remarkable.

The CHAIRMAN. One of our men told us that he knew one township that was pretty well filled with hemlock.

General Andrews. I have never seen or heard of any.

The CHAIRMAN. One of the cruisers that we met, but I do not remember now where he said it was.

General Andrews. Our spruce is principally black. The Chairman. That is swamp spruce, isn't it?

General Andrews. Yes.

The CHAIRMAN. Do you know who owns the most of this land-I mean in a general way—private individuals or corporations?

General Andrews. As a rule, it is owned by private individuals

and logging companies.

The CHAIRMAN. Does the General Government own much of it

outside of the Indian reservations?

General Andrews. I suppose the General Government owns certainly half a million acres of forest; I would not say of this spruce timber.

The CHAIRMAN. Is a good deal of the forest land in the Indian reservations?

General Andrews. Considerable.

The CHAIRMAN. As to estimates, those are only estimates?

General Andrews. Yes.

The CHAIRMAN. For instance, Mr. Rudolph Weyerhaeuser testified to us the other day that they bought from the General Government, after it had been cruised by the General Government, a lot of pine up in the Indian reservation upon which the estimate was 41,000,000 feet of pine, that they had already cut 49,000,000, and had half of it left. Of course, they bought it at so much a thousand, so that it did not make any difference about the quantity.

General Andrews. The actual results generally exceed the esti-

mates.

Mr. Ryan. Not to such an extent as that, do they?

General Andrews. No; that would be an exceptional case. Have you taken any testimony in regard to the rapidity of growth of spruce?

The CHAIRMAN. We have found no one who knew anything about

it, unless we strike the man now.

General Andrews. All I know about it is what I have read in Mr. Pinchot's book on the spruce in the Adirondacks. He showed that the growth there is 1 inch in diameter in seven years. It would take thirty-five years to make 5 inches and seventy-seven years to make 10 inches.

The CHAIRMAN. I said we had taken the testimony of no one who knew anything about it. I will take that back, because Mr. Weyerhaeuser testified he thought a spruce forest could be reproduced to the extent of 5 inches in twenty-five years.

General Andrews. I presume it might.

The CHAIRMAN. Mr. Pinchot and some of his foresters do not agree. We have varying testimony from them on that subject. We have collected on this trip a very interesting exhibit of disks cut from spruce logs for the purpose of demonstrating what length of time it will take to grow spruce trees or the length of time it has taken to grow them, and we have got specimens from 1 inch that grew in fifty years up to 10 inches that grew in one hundred years, and possibly some variations.

General Andrews. The Norway spruce grows more rapidly in

Europe than our spruce grows.

The CHAIRMAN. It grows more rapidly here, doesn't it?

General Andrews. I believe it does; yes.

The CHAIRMAN. And the spruce that you planted here on this experiment, is that all Norway spruce, or have you planted some native spruce?

General Andrews. It is all Norway spruce.

The CHAIRMAN. It might be interesting to plant some native spruce by the side of it, as a matter of comparison. General Andrews. Yes; we probably will.

Mr. Ryan. Is that a dry soil?

General Andrews. It is rather dry; most of it is rather dry. It is cut over Norway pine land.

Mr. RYAN. Do you think spruce will thrive as well or better in

dry land than wet?

General Andrews. It needs moist land. It needs a fresh soil. It does not do very well on dry land. Spruce is a shallow-rooted tree.

It does not go down in the soil.

•The CHARMAN. We found in Wisconsin where we found spruce that it was generally growing scattered in with other forest trees, sometimes on fairly high land and apparently had grown much more rapidly than it does here in the low ground. Have you any idea as to the effect on these swampy forests which will be caused by drainage?

General Andrews. I think they will start a more rapid growth. The drainage of the land will improve the growth. Indeed, they

do not grow any now in the bogs.

The CHAIRMAN. Is the State now engaged in drainage work? General Andrews. There is a good deal of drainage going on.

The CHAIRMAN. The State itself is doing it?

General Andrews. The State appears to be doing it. I do not remember the details, but the State officers inspect it, the secretary of state. I have heard of the secretary of state and some State officers going around to inspect the ditches. We have a state drainage engineer, so that the work is being done under the supervision of the State.

The CHAIRMAN. Is it the policy of the State, then, to encourage the

drainage of these low-area lands?

General Andrews. It is; yes, sir. There is a good deal of enthusiasm on the subject.

The CHAIRMAN. You have a good fire-protection law, as far as the

law is concerned, have you not?

General Andrews. It needs to be improved a good deal. It started in as an experiment in a timid way fourteen years ago. We ought to have the law amended requiring the people who cut timber or wood to burn the brush and slashings and do it while the snow is on the ground. Captain O'Neill, the government superintendent of logging on Cass Lake, told me that in the past year they have adopted the practice of burning these slashings in the winter when the snow is on the ground.

The CHAIRMAN. Mr. Weyerhaeuser told us this morning that the Government had taught them, to their benefit, to burn the slashings

while they were green.

General Andrews. I have tried twice to have a law enacted to burn the slashings, but without success. I shall try again this next winter.

Mr. RYAN. What objection is there to such a law?

General Andrews. They objected on the ground of its costing so much.

Mr. RYAN. They figure that it will cost more than the timber they

might lose in fires would, do they?

General Andrews. Yes; and again they argue that it is dangerous to burn the slashings that it might produce so many fires.

Mr. Ryan. The fires they have had this year may change their

General Andrews. Yes. I see where in the village limits of Chisholm there were about 30 acres of ground that had been covered with slashings, and the presence of these slashings made it possible to burn Chisholm. If the slashings had been burned and the ground cleared, Chisholm would not have been in danger.

Mr. Ryan. The town was destroyed and some lives lost?

General Andrews. Most of the town was destroyed. There have been no lives lost in this State by forest fires.

The CHAIRMAN. You stated a while ago that up to this year, since that law was passed, the average was how much?

General Andrews. About \$32,000.

The CHAIRMAN. I think they have not reported. I think we have seen more than that much loss ourselves.

General Andrews. These fires that you saw were probably the fires

The CHAIRMAN. No; recent fires, I mean.

General Andrews. They have every inducement to report. They are paid for making reports and they are liable to punishment if they fail to make reports. They have blanks furnished them to do it, and return envelopes.

The CHAIRMAN. We can see everywhere we have been in the State the result of your activity. If you had a good appropriation you

could keep out the fires.

General Andrews. I speak of the fires before this year.

The CHAIRMAN. Is there any such thing as preventing forest fires by law or by imposing duties upon officials or individuals unless you have a regularly organized fire protection?

General Andrews. Patrol?

The CHAIRMAN. Yes.

General Andrews. Well, it is just about impossible, and there will be some fires, of course; there will be some settlers 3 or 4 miles away from anybody, out of sight, in dry weather, and they are clearing their land and the fire gets away from them and there it goes.

The CHAIRMAN. That is the way fires happen in the city.

General Andrews. Yes, sir.

The CHAIRMAN. Would anybody propose now to do away with the paid fire department in the cities? General Andrews. That is true.

The CHAIRMAN. Don't you think that the same system in some form might be carried out for the protection of the forest and be

worth the expense?

General Andrews. I do. I think if we had means to employ a competent person, a zealous and honest man, in dry weather, who would go around and be on the lookout, that he could accomplish a great deal. We depend upon town officers, who look upon the work as secondary. They consider that the duty imposed upon them of being fire wardens is not as dignified as that of supervisor.

The CHAIRMAN. I suppose that they consider that it is a duty that they do not care to perform unless the town itself is likely to be

threatened.

General Andrews. Yes. Now, if we had patrols we would employ men in dangerous weather, and had sufficient means to do that we could guard against fires to a greater extent than we do now, and if we had laws regarding the burning of slashings and providing that slashings near settlements or villages could be burned at the State's expense, we could do more than we are doing now. Notwithstanding the 22,000,000 acres of forest country, all the funds we have in a season of emergency is \$5,000.

The CHAIRMAN. For fire protection?

General Andrews. Yes, sir. We have not a dollar more than we had when we started, and I suppose the danger has increased a great deal on account of the activity on the Iron Range. For instance, Chisholm and the country around Chisholm, when this law went into effect, was a wilderness, nobody living there. Now there are 12.000 people living in that region. I suppose the danger is much greater on that account.

The CHAIRMAN. What would you say as to the subject of conserva-

tion of the present forest or reproduction of the forest?

General Andrews. I think that the State should immediately begin to replant, buying up the land which is only suitable for forest, land that can be bought cheap and not suitable for farming; that the State should engage in the work of reforestation and should plant 30,000 acres a year, the same as they do in Germany. Prussia has 6,000,000 acres of state forest, which yields \$9,000,000 revenue.

Mr. RYAN. Annual revenue?

General Andrews. Yes, sir. And employs many thousand people,

and supports a million people probably.

The Chairman. Do you think it likely, considering the vagaries of politicians and the vicissitudes connected with politics and statesmanship, that the State will ever provide laws exempting from taxation

forest-reproducing land in the hands of private owners?

General Andrews. I think it would to a certain extent tax the land as land, but not tax the timber until the timber is cut. I think there is quite a sentiment in favor of that. Of course, to carry that out the State would have to somewhat supervise this work and see that the land was being devoted to forestry—that the land was covered with forest. I suppose the proprietors would be willing to pay a tax on the land as cheap land if they could have the crop exempted from taxation.

Mr. RYAN. It would be practically out of the question to reproduce a forest without exempting standing timber during growth

from taxation, would it not; that is, by private individuals?

General Andrews. Yes: I think so. It would take on an average on what we call forestry land—that is, third-rate land—land that is too hilly or sendy or rocky for farming—and that is the kind of land that forestry wants—on such land it would take eighty years for pine to reach merchantable size. Then it would be only from 12 to 15 inches in diameter. We know what the rate of growth is, because the German forests that have been managed on scientific principles for a century show that the rate of growth on such third-rate land is about 225 board feet to the acre in a year.

The CHAIRMAN. That is the average annual growth?

General Andrews. Average annual growth in a normal forest of

pine.

The CHAIRMAN. When you spoke of planting 30,000 acres a year, what kind of trees would you plant?

General Andrews Pine, principally.

The CHAIRMAN. White pine?

General Andrews. It would depend on the kind of soil. The white requires a pretty good loamy soil. The Norway pine will thrive on poorer land; the jack pine on still poorer land. Jack pine will grow on sand.

The CHAIRMAN. Would you plant much spruce?

General Andrews. I would not say I would plant much. I would plant it in the soil better adapted for spruce, and occasionally some hard wood, too. We might have some acres that would be good for oak. Of course, in buying up considerable land, there might be 10 acres here and there that could not be availed of for a farm but would

be good for oak or other hard-wood timber.

The CHAIRMAN There is a good deal of agitation in the country in favor of having the General Government purchase a large acreage of lands in the White Mountains and also in the Southern Appalachian country as forest reservations. Do you think it would be practicable for the General Government to purchase any of this forest land up in this country and devote it to the reproduction of forests?

General Andrews. I think it would be practicable. I would prefer, however, that the State should do it. The United States now has 167,000,000 acres of national forest. Assuming that only half of it will be productive forest, that is an immense amount. That will make the United States take the lead of the world in forestry, if we

except Russia.

The Chairman. Most of these reservations are pretty well in the West, or in a country that is not so close to the more thickly settled portions of the country, and the freight is a considerable item, I suppose. Of course, we would prefer to have Minnesota do it, but I am wondering whether Minnesota will do that to the extent that the

land here would justify.

General Andrews. I intend to bring that matter before the next legislature. I have the indorsement of Mr. James J. Hill, the president of the University, and some twenty or thirty of our leading citizens of Minnesota in favor of the project that I shall recommend, and that is that a constitutional amendment be adopted providing for an annual tax of three-tenths of a mill on every dollar of taxable property, equivalent to 30 cents on a thousand dollars, and which would raise \$300,000 a year in a few years, and allowing the forestry board to buy land with that money and plant it to forest. I am going to ask the legislature to pass that at the next session.

The CHAIRMAN. Suppose the General Government could be induced, in its effort to reproduce the forest, to pay a small bounty, either to the State or to the private owner who would devote land to

forestry. Would that be an inducement?

General Andrews. It would be an inducement, undoubtedly. The State of Minnesota has, ever since 1876, paid in bounty \$20,000 annually for tree planting on the prairies. That has led to considerable planting in the prairie parts of the State. Trees are not very valuable there, a good many of them cottonwood and boxelder, but still that has led to a good deal of planting, and I think that law has existed long enough.

The CHAIRMAN. That is like the Government timber act. It was a mistake at all times, a good deal like trying to grow trees on the sea. Instead of selecting the place where they could grow, take the place where they will do the poorest and try to raise forest on land which is better adapted to something else and least adapted to forest raising.

General Andrews. Yes.

The CHAIRMAN. Of course, the reproduction of forest is outside of the question of statesmanship, a mere matter of profit in the opinion of people who engage in it. At present no one apparently in this portion of the country believes it to be profitable to do that as a private affair.

General Andrews. Too long to wait.

The CHAIRMAN. If the State engages in it or the General Government offers any inducement or engages in it it is a matter that the common public gets the benefit of and pays the expense of. Is there any practicable method of increasing the fire protection that you can suggest to us, not merely in Minnesota but as a general proposition?

General Andrews. I think it could be improved a great deal by finding men of energy and good conscience who will perform the

duties of fire wardens.

The CHAIRMAN. For pay?

General Andrews. Yes, sir; reasonable pay.

The CHAIRMAN. We are told, for instance, that people here in lumbering can not afford to cut out the matured timber and leave the immature timber standing, because if they do that it is burned before they cut it, but that if they had sufficient fire protection they probably would leave those trees to grow larger. Might that not be the effect of better fire protection?

General Andrews. If there was better fire protection it would be an inducement, of course, to leave the trees to grow. New York seems better equipped a great deal than Minnesota in regard to fire protection. They have got a corps of officials there, and yet New

York has had fires this past season.

The CHAIRMAN. How do they handle it up in Maine; do you re-

member?

General Andrews. They have the town officers act as wardens. They appropriate there \$20,000 a year for fighting fire. They have a forest commissioner who is land commissioner—a good deal the same as it is here.

Mr. RYAN. What is your annual appropriation here for fire pro-

tection?

General Andrews. It is \$5,000 for this office and the ordinary expense of administering the office and the pay of wardens, and in an ordinary season the counties pay back what is paid for the local expenses, what is paid wardens for fighting fire and people assisting them. Every person is obliged to turn out and fight fire at \$1.50 a day, which I believe is not enough. The warden is paid \$2 a day. Then in an extraordinary season, such as has just passed, we have \$5,000 as an emergency fund. That is all.

Mr. Ryan. What territory does a fire warden ordinarily cover? General Andrews. In the country that you have been through it

covers 22,000,000 acres.

Mr. Ryan. I mean one warden's territory.

General Andrews. A warden is for his town, the three supervisors in the township, which is 6 miles square. Sometimes a town contains

four Congressional townships and these three supervisors have four townships to look after. The district is a township, three men to the township.

Mr. Ryan. Through a cut-over territory that is away from a town, away out on the range somewhere, it is not very apt to have any pro-

tection at all, because that man does not get there?

General Andrews. It is liable not to have protection. There are some unorganized towns in which there is scarcely anybody living, and there is nobody suitable to appoint for a fire warden.

Mr. RYAN. That is just where the timber is.

General Andrews. That is just where there is danger. We ought to have a man who is paid enough to go out into that country and watch it.

Mr. RYAN. The fire wardens practically only protect the part that has been opened up to settlement from the fire encroaching on them from the adjacent forest?

General Andrews. Yes.

Mr. Ryan. It is more for their protection than for the protection of the forest?

The CHAIRMAN. How about the railroads? Do they set a large

share of the fires and do they take care of them?

General Andrews. They set a great many fires. The law requires them to have efficient spark arresters, which seems impossible. They frequently set fires. It provides that they shall keep their right of way 50 feet on each side of the main track clear of combustible material, and that if a fire occurs near the line of the road they shall put it out—they shall adopt means to do it.

Mr. RYAN. Whose duty is it to enforce the law?

General Andrews. It is the duty of the forestry commissioner. It is my duty. It is the duty of the local officers. The law says they shall enforce it.

The CHAIRMAN. There is no way of enforcing the law, is there?

General Andrews. When we can get evidence that a person has set a fire we have him arrested and punished. I have had two men convicted, and one was sentenced to pay \$50 fine, and the other \$40. They have appealed to the district court. They gave bonds and appealed to the district court, and the district court will have a jury trial.

The CHAIRMAN. By that time the fire will be out.

General Andrews. It will be forgotten. We shall improve the law in another respect. We will have it so the fine shall not be less than \$50. But they can appeal, of course.

The CHAIRMAN. Are these copies of the report that you made to

the Bureau of Corporations?

General Andrews. That is a copy of the report that I sent to the Department of Commerce and Labor.

The CHAIRMAN. Have you copies of these for us? General Andrews. Yes; I will furnish you a copy.

The CHAIRMAN. We will print it and send you printed copies.

General Andrews. Very well.

# The report is as follows:

Rough estimate by Gen. C. C. Andrews, forestry commissioner of Minnesota. August, 1908, of the total amount of merchantable standing timber, board measure, and cords of standing wood for fuel.

[This estimate is regarded as conservative and made principally from personal knowledge. It is on the basis that "pine lands" yield on an average 250,000 feet, board measure, per 40-acre tract; and that mixed or other forest only suitable for fuel yields 20 cords per acre.]

### AITKEN COUNTY.

It is estimated that each full township in this and the following 20 counties contains on an average 1,500 acres, yielding 20 cords of wood each, exclusive of merchantable timber. Twenty-one counties are assumed to contain in the aggregate 1,000 townships of land.

Twenty-one counties are assur	ned to contain i	n the aggregate 1,000 tow	nships of land.
Ash	2, 304, 000	Pine-Continued.	
Balsam	7, 000, 000	Norway	5, 000, 000
Basswood	7, 680, 000	White	
Birch, white and yellow	3,072 000	Poplar	
Cedar	10, 000, 000	Spruce	
Elm	1, 536, 000	Tamarack	
Maple	2, 688, 000	Tamarack	13, 000, 000
	400, 000	(Dotal	138, 074, 000
Oak Pine:	400,000	10tai	155, 014, 000
	0 000 000		
Jack	8, 000, 000		
	BECKER	county.	
Ash	960,000	Pine—Continued.	
Balsam		Norway	5, 000, 000
Basswood		White	
Birch, white and yellow		Poplar	
Elm		Spruce	
Maple		Tamarack	8, 000, 000
		Idinatack	3,000,000
Oak	1. 300. 000	Motol .	84, 700, 000
Pine:	<b>=</b> 000 000	1001	84, 100, 000
Jack	5, 000, 000		
	BELTRAMI	COUNTY.	
Ash	24, 000, 000	Pine:	
Balm of Gilead	200, 000, 000	Jack	325, 000, 000
Balsam	300, 000, 000	Norway	300, 000, 000
Basswood	80, 000, 000	White	
Birch, white and yellow_	32, 000, 000	Poplar	
Cedar	140, 000, 000	Spruce	
Elm	16, 000, 000	Tamarack	
Maple	28, 000, 000	I amaraca	100,000,000
Oak	2, 200, 000	Total	3, 122, 200, 000
VAR	2, 200, 000	• Total	0, 122, 200, 000
	CARLTON	COUNTY.	
Ash	. 1, 152, 000	Pine—Continued.	
Balsam		Norway	8, 000, 000
Rasswood		White	
Birch, white and vellow	_ 1, 536, 000	Poplar	35, 000, 000
Birch, white and yellow	1, 536, 000 768, 000	Poplar	
Elm	_ 768, 000	Spruce	19, 200, 000
Elm Maple	768, 000 1, 344, 000		19, 200, 000
Elm	768, 000 1, 344, 000	Spruce Tamarack	19, 200, 000

## CASS COUNTY.

Ash	3, 360, 000	Pine—Continued.	
Balsam	11, 000, 000	Norway	180, 000, 000
Basswood	11, 200, 000	White	175, 000, 000
Birch, white and yellow	4, 480, 000	Poplar	112, 000, 000
Cedar	15, 000, 000	Spruce	56, 000, 000
Elm	2,000,000	Tamarack	28, 000, 000
Maple	3, 920, 000		
Oak	1, 200, 000	Total	808, 160, 000
Pine:		,	
Jack	205, 000, 000		
,	CLEARWATI	ER COUNTY.	
Ash	1, 200, 000	Pine—Contin <b>ued</b> .	
Basswood	3, 200, 000	Norway	25, 000, 000
Birch, white and yellow	1, 280, 000	White	30, 000, 000
Cedar	3, 000, 000	Poplar	10, 000, 000
Elm	640,000	Spruce	16, 000, 000
Maple	2, 120, 000	Tamarack	4, 000, 000
Oak	575, 000		
Pine:		Total	118, 015, 000
Jack	20, 000, 000		, ,
	COOK	OUNTY.	
Ash	9, 600, 000	Pine:	
Balm of Gliead		Jack	350, 000, 000
Balsam		Norway	300, 000, 000
Basswood		White	275, 000, 000
Birch, white and yellow		Poplar	320, 000, 000
Cedar		Spruce	160, 000, 000
Elm		Tamarack	80, 000, 000
Maple		Tamarack	30, 000, 000
Oak		Total 1	794 600 000
Oak	40, 000, 000	10(811	, 124, 000, 000
	CROW WIN	G COUNTY.	
Ash	304 000	Pine—Continued.	
Balsam	2, 000, 000	Norway	_ 1,500,000
Basswood	2, 800, 000	White	
Birch, white and yellow	1, 120, 000	Poplar	
Elm	608, 000	Spruce	
Maple	980, 000	Tamarack	
Oak	360, 000		_ 200,000
Pine:	300,000	Total	44 492 000
Jack	2, 850, 000		_ 11, 122, 000
	_,,		
	HUBBARD	COUNTY.	
Ash	1, 750, 000	Pine—Continued.	
Balsam	800, 000		50, 000, 000
Basswood	800,000	White	45, 000, 000
Birch, white and yellow	320,000	Poplar	8, 000, 000
Elm	160, 000	Spruce	
Maple	380,000	Tamarack	
Oak	1, 450, 000		
Pine:	.,,	Total	174, 660, 000
Jack	60, 000, 000		
	,,		

# ITASCA COUNTY.

	18 090 000	Dino	
Ash Balm of Gilead	16, 080, 000 75, 000, 000	Pine:	265, 000, 000
Balsam	52, 000, 000	Norway	300, 000, 000
Basswood	53, 600, 000	White	210, 000, 000
Birch, white and yellow.	21, 440, 000	Poplar	536, 000, 000
Cedar	80, 000, 000	Spruce	288, 000, 000
Elm	10, 620, 000	Tamarack	134, 000, 000
Maple	18, 760, 000		
Oak	1, 804, 000	Total	2, 042, 304, 000
	KANABEC	C COUNTY.	
Basswood	. 350, 000	Pine—Continued.	
Birch, white and yellow		White	2, 000, 000
Elm		Poplar	
Maple	650,000	Spruce	
Oak		Tamarack	
Pine:	, ,		
Jack Norway		Total	15, 670, 000
Not way	. 200,000	•	
	KOOCHICHI	NG COUNTY.	
Ash	21, 120, 000	Pine:	
Balm of Gilead	704, 000, 000	Jack	425, 000, 000
Balsam	70, 000, 000	Norway	275, 000, 000
Basswood	70, 400, 000	White	325, 000, 000
Birch, white and yellow	28, 160, 000	Poplar	700, 000, 000
Cedar	125, 000, 000	Spruce	352, 000, 000
Elm	14, 280, 000	Tamarack	176, 000, 000
Maple	24, 640, 000	` <b>-</b>	
Oak	2, 056, 000	Total	3, 312, 656, 000
	LAKE	COUNTY.	
A ob			
Ash	14, 400, 000	Pine:	900 000 000
Balm of Gilead	14, 400, 000 65, 000, 000	Pine: Jack	320, 000, 000
Balm of Gilead Balsam	14, 400, 000 65, 000, 000 48, 000, 000	Pine: Jack Norway	450, 000, 000
Balm of Gilead Balsam Basswood	14, 400, 000 65, 000, 000 48, 000, 000 84, 000, 000	Pine: Jack Norway White	450, 000, 000 350, 000, 000
Balm of Gilead Balsam Basswood Birch, white and yellow	14, 400, 000 65, 000, 000 48, 000, 000 84, 000, 000 18, 200, 000	Pine: Jack Norway White Poplar	450, 000, 000 350, 000, 000 480, 000, 000
Balm of Gilead Balsam Basswood Birch, white and yellow Cedar	14, 400, 000 65, 000, 000 48, 000, 000 84, 000, 000 18, 200, 000 80, 000, 000	Pine: Jack Norway White Poplar Spruce	450, 000, 000 350, 000, 000 480, 000, 000 240, 000, 000
Balm of Gilead Balsam Basswood Birch, white and yellow Cedar Elm	14, 400, 000 65, 000, 000 48, 000, 000 84, 000, 000 18, 200, 000 9, 600, 000	Pine: Jack Norway White Poplar	450, 000, 000 350, 000, 000 480, 000, 000
Balm of GileadBalsamBasswoodBirch, white and yellow CedarElmMaple	14, 400, 000 65, 000, 000 48, 000, 000 84, 000, 000 18, 200, 000 90, 000, 000 9, 600, 000 16, 800, 000	Pine: Jack Norway White Poplar Spruce Tamarack	450, 000, 000 350, 000, 000 480, 000, 000 240, 000, 000 120, 000, 000
Balm of Gilead Balsam Basswood Birch, white and yellow Cedar Elm	14, 400, 000 65, 000, 000 48, 000, 000 84, 000, 000 18, 200, 000 9, 600, 000	Pine: Jack Norway White Poplar Spruce	450, 000, 000 350, 000, 000 480, 000, 000 240, 000, 000 120, 000, 000
Balm of GileadBalsamBasswoodBirch, white and yellow CedarElmMaple	14, 400, 000 65, 000, 000 48, 000, 000 84, 000, 000 18, 200, 000 9, 600, 000 16, 800, 000 7, 200, 000	Pine: Jack Norway White Poplar Spruce Tamarack	450, 000, 000 350, 000, 000 480, 000, 000 240, 000, 000 120, 000, 000
Balm of Gilead Balsam Basswood Birch, white and yellow Cedar Elm Maple Onk	14, 400, 000 65, 000, 000 48, 000, 000 84, 000, 000 80, 000, 000 9, 600, 000 7, 200, 000 MILLELAG	Pine: Jack Norway White Poplar Spruce Tamarack Total	450, 000, 000 350, 000, 000 480, 000, 000 240, 000, 000 120, 000, 000
Balm of GileadBalsamBasswoodBirch, white and yellow CedarElmMapleOnk	14, 400, 000 65, 000, 000 48, 000, 000 84, 000, 000 18, 200, 000 9, 600, 000 16, 800, 000 7, 200, 000 MILLELAG	Pine: Jack Norway White Poplar Spruce Tamarack Total SS COUNTY.	450, 000, 000 350, 000, 000 480, 000, 000 240, 000, 000 120, 000, 000 2, 303, 200, 000
Balm of GileadBalsamBasswoodBirch, white and yellow CedarElmMapleOnkBasswood	14, 400, 000 65, 000, 000 48, 000, 000 84, 000, 000 18, 200, 000 9, 600, 000 16, S00, 000 7, 200, 000 MILLELAG	Pine: Jack Norway White Poplar Spruce Tamarack Total S COUNTY. Pine—Continued. Norway	450, 000, 000 350, 000, 000 480, 000, 000 240, 000, 000 120, 000, 000 2, 303, 200, 000
Balm of GileadBalsamBasswoodBirch, white and yellow CedarElmMapleOnk	14, 400, 000 65, 000, 000 48, 000, 000 84, 000, 000 18, 200, 000 9, 600, 000 7, 200, 000 MILLELAG 550, 000 450, 000	Pine:  Jack Norway White Poplar Spruce Tamarack Total SS COUNTY.  Pine—Continued. Norway White	450, 000, 000 350, 000, 000 480, 000, 000 240, 000, 000 120, 000, 000 2, 303, 200, 000 1, 750, 000 2, 500, 000
Balm of Gilead Balsam Basswood Birch, white and yellow Cedar Elm Maple Oak Ash Basswood	14, 400, 000 65, 000, 000 48, 000, 000 84, 000, 000 89, 000, 000 9, 600, 000 7, 200, 000 MILLELAC 550, 000 450, 000 780, 000	Pine: Jack Norway White Poplar Spruce Tamarack Total S COUNTY. Pine—Continued. Norway White L'oplar	450, 000, 000 350, 000, 000 480, 000, 000 240, 000, 000 120, 000, 000 2, 303, 200, 000 
Balm of GileadBalsamBasswoodBirch, white and yellow CedarElmMapleOakBasswoodBasswoodBasswoodBasswood	14, 400, 000 65, 000, 000 48, 000, 000 84, 000, 000 18, 200, 000 9, 600, 000 16, 800, 000 7, 200, 000 MILLELAC 550, 000 450, 000 780, 000 1, 200, 000	Pine:  Jack Norway White Poplar Spruce Tamarack Total SS COUNTY.  Pine—Continued. Norway White	450, 000, 000 350, 000, 000 480, 000, 000 240, 000, 000 120, 000, 000 2, 303, 200, 000 
Balm of Gilead Balsam Basswood Birch, white and yellow Cedar Elm Maple Oak Ash Basswood Elm Maple	14, 400, 000 65, 000, 000 48, 000, 000 84, 000, 000 18, 200, 000 9, 600, 000 16, 800, 000 7, 200, 000 MILLELAC 550, 000 450, 000 780, 000 1, 200, 000	Pine: Jack Norway White Poplar Spruce Tamarack Total S COUNTY. Pine—Continued. Norway White L'oplar	450, 000, 000 350, 000, 000 480, 000, 000 240, 000, 000 120, 000, 000 2, 303, 200, 000 
Balm of GileadBalsamBasswoodBirch, white and yellow CedarElmMapleOakBasswoodBasswoodBasswoodBasswood	14, 400, 000 65, 000, 000 48, 000, 000 84, 000, 000 89, 000, 000 16, 800, 000 7, 200, 000 MILLELAG 550, 000 450, 000 780, 000 1, 200, 000	Pine: Jack Norway White Poplar Spruce Tamarack Total S COUNTY. Pine—Continued. Norway White L'oplar	450, 000, 000 350, 000, 000 480, 000, 000 240, 000, 000 120, 000, 000 2, 303, 200, 000 
Balm of GileadBalsamBasswoodBirch, white and yellow CedarElmMaple	14, 400, 000 65, 000, 000 48, 000, 000 84, 000, 000 9, 600, 000 16, 800, 000 7, 200, 000 450, 000 450, 000 1, 200, 000 1, 200, 000 1, 200, 000 MORBISON	Pine:     Jack     Norway     White Poplar Spruce Tamarack  Total  S COUNTY.  Pine—Continued.     Norway     White I'oplar  Total  Total	450, 000, 000 350, 000, 000 480, 000, 000 240, 000, 000 120, 000, 000 2, 303, 200, 000 
Balm of GileadBalsamBasswoodBirch, white and yellow CedarElmMaple	14, 400, 000 65, 000, 000 48, 000, 000 84, 000, 000 18, 200, 000 9, 600, 000 16, 800, 000 7, 200, 000 MILLELAC 550, 000 450, 000 780, 000 1, 200, 000 MORRISON 400, 000	Pine:     Jack     Norway     White  Poplar Spruce Tamarack  Total  S COUNTY.  Pine — Continued.     Norway     White Poplar  Total  Total  Founty.  Pine—Continued.	450, 000, 000 350, 000, 000 480, 000, 000 240, 000, 000 120, 000, 000 2, 303, 200, 000 1, 750, 000 2, 500, 000 12, 000, 000 20, 280, 000
Balm of GileadBalsamBasswoodBirch, white and yellow CedarElm	14, 400, 000 65, 000, 000 48, 000, 000 84, 000, 000 84, 000, 000 9, 600, 000 16, 800, 000 7, 200, 000 MILLELAG 550, 000 450, 000 780, 000 1, 200, 000 MORBISON 400, 000	Pine:  Jack Norway White Poplar Spruce Tamarack  Total S COUNTY.  Pine—Continued. Norway White Poplar  Total  COUNTY.  Pine—Continued. Norway White Norway Total	450, 000, 000 350, 000, 000 480, 000, 000 240, 000, 000 120, 000, 000 2, 303, 200, 000 1, 750, 000 2, 500, 000 12, 000, 000 20, 280, 000
Balm of Gilead	14, 400, 000 65, 000, 000 48, 000, 000 84, 000, 000 84, 000, 000 9, 600, 000 16, 800, 000 7, 200, 000 MILLELAG 550, 000 450, 000 780, 000 1, 200, 000  MORRISON 400, 000 400, 000	Pine:     Jack	450, 000, 000 350, 000, 000 480, 000, 000 240, 000, 000 120, 000, 000 2, 303, 200, 000 1, 750, 000 2, 500, 000 12, 000, 000 20, 280, 000 2, 500, 000 1, 500, 000
Balm of Gilead	14, 400, 000 65, 000, 000 48, 000, 000 84, 000, 000 84, 000, 000 9, 600, 000 7, 200, 000 MILLELAG 550, 000 450, 000 780, 000 10, 200, 000 MORBISON 400, 000 160, 000	Pine:     Jack     Norway     White Poplar Spruce Tamarack  Total  SS COUNTY.  Pine—Continued.     Norway     White I'oplar  Total  COUNTY.  Pine—Continued.     Norway     White     I'oplar  Total  Foolar  Poplar  Pine—Continued.     Norway     White     I'oplar	450, 000, 000 350, 000, 000 480, 000, 000 240, 000, 000 120, 000, 000 2, 303, 200, 000  1, 750, 000 2, 500, 000 12, 000, 000 20, 280, 000 1, 500, 000 1, 500, 000 4, 000, 000
Balm of Gilead	14, 400, 000 65, 000, 000 48, 000, 000 84, 000, 000 18, 200, 000 9, 600, 000 16, 800, 000 7, 200, 000 450, 000 450, 000 1, 200, 000 MORRISON 400, 000 400, 000 150, 000 240, 000	Pine:     Jack     Norway     White Poplar Spruce Tamarack  Total  S COUNTY.  Pine—Continued.     Norway     White I'oplar  Total  COUNTY.  Pine—Continued.     Norway     White     I'oplar     Total  S COUNTY.	450, 000, 000 350, 000, 000 480, 000, 000 240, 000, 000 120, 000, 000  2, 303, 200, 000  1, 750, 000 2, 500, 000 12, 000, 000 20, 280, 000  2, 000, 000 1, 500, 000 4, 000, 000 2, 000, 000 2, 000, 000
Balm of Gilead	14, 400, 000 65, 000, 000 48, 000, 000 84, 000, 000 18, 200, 000 9, 600, 000 16, 800, 000 7, 200, 000 450, 000 450, 000 1, 200, 000 MORRISON 400, 000 400, 000 150, 000 240, 000	Pine:     Jack     Norway     White Poplar Spruce Tamarack  Total  SS COUNTY.  Pine—Continued.     Norway     White I'oplar  Total  COUNTY.  Pine—Continued.     Norway     White     I'oplar  Total  Foolar  Poplar  Pine—Continued.     Norway     White     I'oplar	450, 000, 000 350, 000, 000 480, 000, 000 240, 000, 000 120, 000, 000 2, 303, 200, 000  1, 750, 000 2, 500, 000 12, 000, 000 20, 280, 000 1, 500, 000 4, 000, 000 1, 000, 000 1, 000, 000 1, 000, 000

# OTTERTAIL COUNTY.

Ash	1, 600, 000	Poplar	6, 000, 000
Rasswood	600, 000	SpruceTamarack	3, 000, 000
Birch, white and yellow	300, 000	Tamarack	1, 500, 000
Elm	220, 000	•	
Maple	600,000	Total	<b>15, 520, 000</b>
Oak	1, 700, 000		
	PINE C	DUNTY.	
A -1-	0.010.000	Dina Continued	
Ash	2, 912, 000	Pine—Continued.	0 000 000
Ralsam	3, 000, 000	Norway	8, 000, 000
Basswood	3, 040, 000	White	6, 000, 000
Birch, white and yellow_	1, 200, 000	Poplar	50, 000, 000
Elm	1,064,000	Spruce	15, 200, 000
Oak	1, 250, 000	Tamarack	7, 500, 000
Pine: Jack	17, 000, 000	Total	118 188 000
Jack	11,000,000	1001	110, 100, 000
	BOSEAU	COUNTY.	
Ash	500,000	Pine:	
Balsam		Jack	5, 000, 000
Basswood	1,000,000	Norway	2,000,000
Birch, white and yellow	410,000	Poplar	
Cedar		Spruce	
Elm		Tamarack	
Maple	650, 000	1 CMM1 CV 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Oak	700, 000	Total	33, 960, 000
·	ST. LOUIS		
	211 20012		
Ash	40, 800, 000	Pine: .	
Balm of Gilead	100, 000, 000	Jack 1,	100, 000, 000
	136, 000, 000	Norway 1,	
	136, 000, 000	White 1,	
Birch, white and yellow	<b>54, 4</b> 00, 000	Poplar 1,	
	<b>123, 0</b> 00, 000		680, 000, 000
Elm	27, 200, 000	Tamarack	340, 000, 000
Maple	47, 600, 000		
Oak	20, 400, 000	Total 6,	715, 400, 000
	TODD C	DUNTY.	
Ask	900 000	Dina Continued	
Ash	800, 000	Pine—Continued.	9 000 000
Basswood	300, 000	Norway	
Birch, white and yellow	275, 000	White	
Elm	300,000	Poplar	3,000,000
Maple	305, 000	Spruce	1, 500, 000
Oak Pine:	1, 600, 000	Tamarack	750, 000
Jack	2, 400, 000	Total	16, 730, 000
	WADENA	COUNTY.	
Ash	650, 000		10 000 000
Balsam	500, 000	Norway	
Basswood	500, 000	White	
Birch, white and yellow	200, 000	Poplar	
Elm	175, 000	Spruce	
Maple	200, 000	Tamarack	1,000,000
Oak	550, 000	· •	40.055.000
Pine:		Total	49, 275, 000
Jack	20, 000, 000		

General Andrews. We have 20,000,000 acres of land to look after, and this office is provided with a commissioner and a stenographer. We have not got a clerk. We ought to have a chief clerk and an assistant and two stenographers.

The Chairman. We are apparently just waking up to the necessity of taking care of our forests, and we will see if we can help you get

more help and more money.

General Andrews. I wish you would, indeed:

The CHAIRMAN. There is no doubt that you need it. Is there any other State east of the Rocky Mountains now that has as much forest as Minnesota?

General Andrews. I think not.

The CHAIRMAN. Of course, it is quite true, I suppose, that land that is valuable for grazing or agricultural purposes will never be used for forest reproduction to any extent?

General Andrews. If every farmer had 10 acres that would be just as well to devote to forest as to cultivation that would make quite an

amount.

The CHAIRMAN. I am not referring to the farm timber lot, but, on a larger scale, a country that is suitable for grazing or farming is not likely to be used by the State or the individual for forest reproduction, I take it.

General Andrews. No.

The CHAIRMAN. As to Minnesota, that brings in the question as to what land can be used for farming and what the effect of drainage will be upon the muskeg and the lakes. You are the headwaters of the Mississippi, and the effort of the Government at present is not only toward conservation of forest but toward the conservation of the water resources. Taking that into consideration, the effect of drainage on the lakes of northern Minnesota, what, in your judgment, is likely to be the future of that part of the State—devoted to farming or to forest raising?

General Andrews. I would think it would be devoted to a considerable extent to farming, the same as New Hampshire and Maine. The land that is good for stock raising, for grass, to be used for dairy farms. There is considerable land in northern Minnesota that would be good for dairy farms that would not produce wheat, and considering the abundance of water, which is important in stock raising, and the great number of good, natural meadows, I would say that there would be considerable farming, and yet that we could have probably

from three to six million acres for forest.

The CHAIRMAN. If you drain off the muskeg, will that have a tendency or not to drain the lakes?

General Andrews. I do not believe I am engineer enough to say. The Chairman. I did not know but what you were familiar with the surveys they have made. Of course, that would depend wholly

upon the matter of surveys.

General Andrews. I do not know but it might help replenish the lakes to drain the muskeg. We have now a system of reservoirs in northern Minnesota and they are increasing. We are making dams at places that would not have been thought of thirty years ago.

The CHAIRMAN. In connection with those reservoirs, is there part of that land that could be used for forestry purposes, or not, better

than for grazing purposes?

General Andrews. The land that is being drained?

The CHAIRMAN. The land where you are damming up the water adjacent to it.

General Andrews. That would not increase the amount of forests

that I know of.

The CHAIRMAN. No; but it overflows more or less land.

General Andrews. Yes; kills some timber, too.

The CHAIRMAN. But there is always more or less land adjacent to that?

General Andrews. Yes.

The CHAIRMAN. Is that more valuable than for grazing or re-

ioresting !

General Andrews. It would depend upon the nature of the soil. Loamy soil where there is granite is good for grass if it is not too stony.

The CHAIRMAN. We have seen a good deal of forest where you can see nothing but large rocks under trees that have been blown over, with a little humus on top. Of course, that land is worthless for anything except for forest.

General Andrews. Yes.

The CHAIRMAN. We have asked a good many gentlemen in reference to the character of the muskeg, and have been told that under a good deal of the muskeg they believed there was only rock and no soil below the peat. Whether that peat can be made into good farming land itself would depend. I suppose, upon its depth and what fertilizers were added to it, but there may be a considerable portion of that that is only good for reforesting.

General Andrews. Yes.

The CHAIRMAN. If you have a number of million acres of land that are better fitted for reforestation than for any other purpose, 30 000 acres a year, which is a good many, would still seem very small. Would you not require a very great popular feeling in the State on the subject of national help to get that reforested within a reasonable

period of time?

General Andrews. Of course, we need a strong popular sentiment. In the proposition that I refer to we can submit to popular vote to be adopted as a constitutional amendment. It will certainly help agitate the subject if it does not carry. In eighty years, if we should buy and plant thirty-six or thirty-seven thousand acres a year, we would have 3,000,000 of forest, from which we could cut 675,000,000 feet annually. Of course, we would have to reforest some, but we could cut over what we plant this year in eighty years.

The CHAIRMAN. If you would plant enough this year to let it grow until it reached maturity, you would get still more benefit from it?

General Andrews. To have a normal forest you must have some matured trees to cut every year. It would be better to have it in one locality. What you plant this year in eighty years you can cut.

The CHAIRMAN. What you plant this year, of course, you could

thin out a number of times.

General Andrews. I do not think so, because a forest that is planted on forestry principles, trees about 4 feet apart, they grow up thick and close and they shed the limbs themselves. The shade kills the limbs just as has been done in our forest here in Minnesota. I

have a picture here which illustrates that idea. It shows how trees will grow on land that can not be used for agriculture.

The CHAIRMAN. Of course, they will be more than 4 feet apart

when they reach maturity.

General Andrews. Oh, yes.

The CHAIRMAN. The spruce might easily be thinned out.

General Andrews. Yes; they could with profit use the trees for Christmas trees when they are fifteen years old. A man could make money raising Christmas trees if he wanted to. Some people object to cutting trees for Christmas trees. I think that is good forestry because forestry means getting a revenue from forestry land.

The Chairman. You do not object to cutting Christmas trees?

General Andrews. Not at all. That is genuine forestry. If you can get anything from your land by raising a crop of trees and selling them when they are fifteen years old, it is much better than to wait eighty years. I object, however, to people stealing Christmas trees.

The Chairman. You hand me certain blanks. These are all blanks

in connection with fire protection and notices that you send out in

connection with fire protection? General Andrews. Yes, sir.

The CHAIRMAN. They may be inserted in the record for information.

#### STATE OF MINNESOTA.

## FIRE WARDEN'S REPORT OF FIRE.

To the Forestry Commissioner, St. Paul, Minn.: A [state whether forest, prairie, or field fire] _____ fire occurred in the [state what part of town] _____ part of the town of ____, being township No. ____, range ____, in the county of _____, on the ___ day of _____ [state about what time of day] ____. It burnt over ____ acres of [state kind of land, whether field, prairle, brush, meadow, heavy or light timber] ____, destroyed _____ and did damage to the amount of \$______ Said fire originated on section No. ____, being land occupied by _____ [if vacant so state] _____ and was caused by [explain how it originated. It is the chairman's duty "to inquire into the cause" of the fire. He should report the facts and circumstances showing who caused the fire] _____

The fire was extinguished in ____ hours after it started. There were ____ persons called to help extinguish it. [If none were called, so state.] The number of persons assisting in extinguishing the fire was ____. The fire was extinguished in the following manner ______.

The weather was [state whether dry and windy and how long it had been dry] ____. [Give the name of any fire warden who was present and assisted in controlling or extinguishing the fire, and the name and address of any witness as to who set the fire and state what he will swear to.]

Signature _ P. O. _____ Date _____ Name of organized township _____.

## POST-OFFICE ADDRESS OF FIRE WARDENS.

[Note.—Be careful in writing names to have each letter distinct and plain.]

To the Chief Fire Warden, St. Paul:

Sir: The undersigned is chairman of supervisors of the town of ____, in the county of _____, His residence is on section ____, township ____, range ____, and his post-office is _____.

The names, residence, and post-office of the other two supervisors are as follows:

Mr. ____ resides on section ____ (if you do not know the section he resides on state near what section), township ____, range ___, and his post-

office is Mr reside:	s on (near) section, township,
ange, and his post-office is	
Names and post-office address o	f the justices of the peace in above-named
own:	· •
Names	
Post-office	
P. O	Signature,
Date	Name of organized township

#### FOREST FIRE LAW OF MINNESOTA.

[Circular No. 26.]

STATE OF MINNESOTA. OFFICE OF FORESTBY COMMISSIONER, St. Paul, Minn., March 26, 1906.

Chapter 22 and additional quoted sections of "Revised Laws, Minnesota, 1905," for the prevention and extinguishment of forest and prairie fires are herewith published for the information and guidance of all persons concerned.

1781. The state auditor shall appoint a forestry commissioner, to hold office during his pleasure, whose salary shall be fifteen hundred dollars per annum, payable monthly out of the appropriations for forest preservation. He shall be a member of the forestry board, have immediate supervision of the several firewardens, disseminate information concerning forestry, and enforce the laws

relating thereto, and to the prevention of forest and prairie fires.

1782. The supervisors of towns, mayors of cities, and presidents of village councils are hereby constituted firewardens for their respective districts. Upon request of the commissioner, county auditors shall immediately furnish the names and addresses of the chairmen of town boards, the names of towns, and the numbers and ranges of the townships in each. The commissioner may appoint firewardens for unorganized territory, and additional wardens, temporarily, wherever he may deem it necessary; and he may direct any warden to perform duties at a point outside of his district. The wardens shall enforce the provisions of this chapter. They shall patrol their districts in dry seasons, and, with the approval of the commissioner, may employ patrols to guard against carelessness in use of fire. They shall promptly investigate each prairie and forest fire within their respective districts, and report the cause thereof, the property destroyed and its value, the lives lost, if any, the means used to combat such fire, and any additional facts required by the commissioner. They shall make such other reports as he may require, and comply promptly with his instructions. Each warden shall cooperate with the warden in any adjoining district, and, in his absence, assume control therein. Each may arrest, without a warrant, any person found violating any provision of this chapter, and take him before a magistrate, and there make complaint; and, when a warden shall have information that such violation has been committed, he shall make similar complaint. Wardens shall go to the place of danger to control or prevent fires, and in emergencies may employ or compel assistance. Each warden shall receive for actual service two dollars per day, and each employee or patrol one dollar and fifty cents per day. Unless directed by the commissioner, no warden shall be paid for more than fifteen and no employee for more than ten days in any one year; but a warden shall receive compensation for use of a team when plowing for the control of a fire.

1783. The commissioner shall investigate the State forests, and the causes and effects of fire therein; the quantity and character of the timber, and methods used to promote its regrowth, and other facts relating to forest interests. He shall report to the auditor annually touching his official acts, making such recommendations as he shall deem proper. He shall cooperate with any force of the United States which may be detailed to protect property from fire. He shall prepare an abstract of the penal laws relating to forest and prairie fires, together with proper regulations and suggestions for the prevention and control thereof, and before April 1 in each year shall forward printed copies to all firewardens, railroad companies, and chairmen of county boards. The wardens shall post such abstract in numerous conspicuous places in their respective districts, and the commissioner may require any county board to cause at least

three weeks' published notice thereof to be given.

1784. In any season of unusual drought, the commissioner may use such means as he shall deem necessary to prevent or suppress forest and prairie fires, the cost whereof, not exceeding five thousand dollars in any one year, shall be paid by the State. And whenever the local officials shall neglect to prosecute violators of any law relating to forest or prairie fires, the commissioner shall prosecute the same, and the cost of such prosecutions, not exceeding one thousand dollars in any year, shall be paid by the State. County attorneys shall assist therein. Six thousand dollars, or so much thereof as may be necessary, are hereby appropriated annually for the purposes of this section.

1785. Each firewarden shall be paid for actual service at the rate of two (\$2) dollars per day, and each employee or patrol at the rate of one and fifty one-hundredths (\$1.50) dollars per day. Unless directed by the commissioner no firewarden shall be paid for more than fifteen (15) and no employee for more than ten (10) days in any one year; but a firewarden shall receive compensation for use of team when plowing for the control of a fire. The compensation authorized by this section shall be paid out of the state treasury on duly verified vouchers approved by the commissioner; and one-half (\frac{1}{2}) the amount shall be reimbursed to the State by the county in which the expense occurred. The state auditor shall notify the proper county auditor of the one-half (\frac{1}{2}) amount that has become due from his county under the foregoing provisions and such county auditor shall immediately draw and transmit to the state auditor a warrant on the county treasurer of his county in favor of the State for such amount.

1786. Every person operating a thrashing or other portable engine shall keep effective spark arresters thereon while in use, and no person shall deposit coals or ashes therefrom without safely covering or extinguishing the same. Every violation of any provision of this section shall be deemed a misdemeanor.

1787. Every warden or patrol, and every person lawfully commanded to assist in enforcing any of the provisions of this chapter, who shall unjustifiably refuse or neglect to perform his duty; every person who shall kindle a fire on or near to forest or prairie land and leave it unquenched, or be a party thereto; every person who shall use other than incombustible wads for firearms, or carry a naked torch, firebraud, or exposed light in or near to forest land; and every person who shall deface, destroy, or remove any abstract posted under this chapter, shall be guilty of a misdemeanor. Any person who maliciously sets on fire, or causes to be set on fire, any woods, prairie, or other combustible material, whereby the property of another is destroyed and lives are sucrificed, shall be punished with a fine of not over \$500 or be imprisoned in the State prison for a term not exceeding ten years, or both such fine and imprisonment.

4907. Every person who shall negligently or carelessly set on fire, or cause to be set on fire, any woods, prairie, or other combustible material, whether on his own land or not, by means whereof the property of another shall be endangered, or who shall negligently suffer any fire upon his own lands to extend beyond

the limits thereof, shall be guilty of a misdemeanor.

4843. Every public officer, or person holding a public trust or employment, who shall willfully neglect or omit to perform any duty enjoined upon him by law, in case no punishment is specially provided therefor, shall be guilty of a gross misdemeanor.

4763. Whoever is convicted of a misdemeanor for which no punishment is prescribed by any statute in force at the time of conviction and sentence shall be punished by imprisonment in the county jail for not more than three months, or by a fine of not more than \$100.

4764. Whoever shall be convicted of a gross misdemeanor for which no punishment is prescribed by any statute in force at the time of conviction and sentence shall be punished by imprisonment in the county jail for not more

than one year, or by a fine of not more than \$1,000.

2037. Every company operating a railroad shall use upon each locomotive engine a good and efficient spark arrester, and shall keep the ground for 50 feet on each side of the center of the main track clear of combustible materials, except ties and other material necessary for the maintenance and operation of the road, from April 15 to December 1. No company shall permit any of its employees to leave a deposit of fire, live coals, or ashes in the immediate vicinity of woodland or lands liable to be overrun by fire, and every engineer, conductor, or trainman discovering fire adjacent to the track shall report the same promptly at the first telegraph station reached by him. In sersons of drought every such company shall give its employees particular instructions for the prevention and extinguishment of fires, and shall cause warning placards furnished by the forestry commissioner to be conspicuously posted at every station in the vicinity of forests and grass lands, and, when a fire occurs

near the line of its road, shall concentrate such help and adopt such measures as shall be available for its extinguishment. Any company violating any provision of this section shall forfeit to the State not more than \$100 for each offense, and any railroad employee violating the same shall be guilty of a misdemeanor, and shall be punished by a fine of not less than \$5 nor more than \$50.

1788. All fines collected for violations of this chapter shall be paid into the treasury of the county in which the conviction occurs and become a separate fund for defraying the cost of enforcing the provisions hereof in such county. 5504. These laws * * * shall take effect March 1, 1906, but shall not be construed as abrogating any act passed at the session of 1905, all of which, so far as they differ from the revised laws, shall be construed as amendatory

thereof or supplementary thereto.

Firewardens will preserve this and other printed instructions which they may receive and turn the same over to their successors. Every chairman of town board receiving three copies of this circular will furnish one to each of the other two members of the board.

C. C. ANDREWS, Forestry Commissioner.

### DUTIES OF FIREWARDENS.

[Circular No. 31.]

STATE OF MINNESOTA.

OFFICE OF FORESTRY COMMISSIONER,
St. Paul, Minn., April 11, 1908.

By section 1782, revised laws, Minnesota, 1905, supervisors of towns, mayors of cities, presidents of village councils are firewardens. They shall go to the place of danger to prevent fires and to control fires. They shall in emergencies

compel assistance.

No one can tell when a season like that preceding the Hinckley calamity, September 1, 1894, may occur, and too much care can not be observed in regard to fires in dangerous localities in seasons of drought. A small fire, if left to smoulder and burn, might in a very dry period, with a sudden and terrific gale of wind, cause a great calamity. The only safe way in case of such fire is, if a warden in whose district it occurs can not entirely extinguish the fire, to summon assistance and make such a break around it that it can not spread. The law is explicit in making it the duty of a warden to "go to the place of danger" to control fires and to prevent fires. They shall promptly investigate and report fires and make complaint before a magistrate for violation of the law.

Wardens have other public duties, but none of their duties is more respectable than that of saving their districts from a catastrophe that is liable from forest and prairie fires. If such catastrophe should occur through their neglect it would be a lasting discredit to their memory. On the other hand, where their vigilance results in the preservation of life and property in their communities they deserve public gratitude.

The only safety is to insist that people shall be careful about fire. Wardens

must be watchful, energetic, strict.

C. C. ANDREWS, Forestry Commissioner.

General Andrews. I send these notices to each chairman of the board of supervisors of each township, and send 3,000 to the railroad companies.

STATE OF MINNESOTA,
OFFICE OF THE FORESTRY COMMISSIONER,
St. Paul, Minn., April 9, 1908.

By the law of Minnesota anyone who kindles a fire near forest or prairie land and leaves it unquenched is liable to a fine of not exceeding \$100 or imprisonment in jail not exceeding three months.

Town supervisors, village presidents, and mayors of cities are firewardens and required to enforce the law, go to place of danger to prevent and control fires, employ or compel assistance in emergencies, investigate and immediately report fires, and complain before a magistrate of violations of the law.

Railroad companies are required to use efficient spark arresters on their locomotive engines, keep their rights of way clear of combustible material (except ties), post warning placards conspicuously at every station in the vicinity of forests and grass lands, and extinguish any fire occurring near their roads, subject to forfeiture of not exceeding \$100 for each offense.

> C. C. ANDREWS. Forestry Commissioner.

The CHAIRMAN. You send out a blotter?

General Andrews, Yes.

The blotter contains the following printed matter:

Don't be afraid to caution people against causing fires.

Pile your brush before burning. You must not set fire and let it run wild. Take pride in having your town free from fires.

"Why aren't those sand hills planted to fir?" [Frederick the Great, one

hundred and fifty years ago.]

Leading principles of forestry: Forest should occupy only nonagricultural land; when young, should be crowded, to promote height growth; should be treated as a permanent revenue yielding capital; cutting should be done so as to promote natural regeneration on the cleared land.

General Andrews. They are furnished with return blanks and let-

The CHAIRMAN. Here is a copy of the letter head of the forestry commissioner, which may be inserted in the record, with an extract from the President's message:

C. C. Andrews,

Forestry Commissioner.

STATE OF MINNESOTA, OFFICE OF FORESTRY COMMISSIONER, St. Paul, Minn., -

Public opinion has moved steadily toward a just appreciation of the value of rests. The fundamental idea of forestry is the perpetuation of forests by The forest reserves should be set apart forever for the use and benefit of our people as a whole, and not sacrificed to the short-sighted greed of a few. All of the reserves should be better protected from fires.

The forests are natural reservoirs. By restraining the streams in flood and replenishing them in drought they make possible the use of waters otherwise

wasted.

The preservation of our forests is an imperative business necessity. (President Roosevelt's first annual message.)

General Andrews. The annual report is in this style. The state publishes 4,000 copies and distributes them gratuitously. There are illustrations in it.

The CHAIRMAN. You state you publish 4,000 copies of this annual report?

General Andrews. Yes, sir.

The CHAIRMAN. This is the thirteenth annual report of the forestry commission?

General Andrews. Yes. You might take this, because that contains some estimates made thirteen years ago of timber in this State. (Referring to second annual report of the chief firewarden for the vear 1896.)

The CHAIRMAN. How many reports of fires have you had this year? General Andrews. I should say that there must be 350 reports. have not compiled them yet. The damage from fire in this State is very much less than the newspaper accounts give. Except Chisholm, I do not suppose the damage is \$300.000.

The Chairman. You have had much less fire in this State than they

have had in Wisconsin.

General Andrews. Yes; that is, just timber.

#### State forestry in European countries.

[Compiled from Thirteenth Annual Report of the Forestry Commissioner of Minnesota, 1907.]

Country.	Year of report.	Acreage.	Prevailing varieties of trees.	Annual expense.	Annual net reve- nue.	Annual net revenue per acre.	ested	Average annual damages by
Alsace-Lorraine.		884,175	Beech, oak, pine, fir, spruce.	\$1,480,000	\$858,000	\$2.40	8,940	
Austria	1895	2,573,940		1,803,755	698,741	.26	15,614	\$32,781
Duchy of Baden.	;	248,000	Spruce					· 
Bavaria	1891,1894	2,150,000	Red, white pine, beech.	4,965,204		i		-
Bulgaria		' ' '	Scotch pine, fir, spruce.					
Denmark		142,140	Beech, pine, spruce.					
France		2,800,000	Oak, pine, fir, spruce. Norway	2,725,000	3,275,000	1.17		
Grand Duchy of Hesse.	1908	177,880	Broad-leaved, 50 per cent; coni- fers, 40 per cent,	534,153	864,191	2.05	2,700	1,500
Italy		128,960	Oak, beech, pine, larch, fir.	80,000	70,000	.54	150	
Norway	1904-5	2,265,657	Coniferous, birch.	174.243	120,121	.05	7.556	! !
Norway Prussia	İ	į	Scotch pine, larch, beech, red pine, fir, oak,	8,500,000	8,700,000		44,830	
	ł		Pine, fir, oak, birch.		19,079,506	.03	21,241	84,930
Duchy of Sax- Meningen	1906	106,580	Silver fir, Nor- way spruce, Scotch pine.					
Saxony	1903	442,000	Spruce, Scotch pine, fir, larch.	1,270,800	2,067,700	4.68	6,500	300
Grand Duchy of		110,910						
Saxe-Weimar.			0					
Sweden	1895		Spruce, pine, birch.	185,397		.05	10,875	1
Switzerland	1		Norway spruce, silver fir, larch, Scotch pine.	112,600			503	
Wurtemburg	1895-96	420,000	Norway spruce, beech, silver fir, Scotch pine.	1,188,574	1,744,788	8.63	6,478	500

#### Private forestry in European countries.

[Compiled from Thirteenth Annual Report of the Forestry Commissioner of Minnesota, 1907.]

Country.	Year of report.	Acreage.	Value per acre.	Revenue.	Managed on forestry principles.	Remarks.
Alsace-Lorraine		221,965	\$275	Per cent.	Per cent.	
Austria	1895	16,754,290	5 to 340	2 to 3	38.4 33	Product increasing.
BavariaBulgaria	1892 1905	3,149,400 1,283,500	(4)	(4)	18	Froduct mereasing.
Denmark	1896	505,900			75 to 80	Since 1868 108,500 acres
France		16,000,000		(4)	;   (¢)	planted. Area increasing.
Grand Duchy of   Hesse.	1903	199,185				
Prussia	1904-5	10,828,780	(6)		50 '	
Saxony	1900	520,000 120,510			(4)	Yield less than State.
Saxe-Weimar.			_			
Sweden	1895	<b>58</b> ,715,135	5		25	
8 witzerland Wurtemburg	1903-4 1902	604,014 537,000			37	

Varies widely.
 Less than State.
 Practice spreading.
 A considerable percentage.



# PULP AND PAPER INVESTIGATION HEARINGS

H19821

# STATISTICS OF FOREIGN COUNTRIES

#### SELECT COMMITTEE OF HOUSE OF REPRESENTATIVES

JAMES R. MANN, Illinois, Chairman

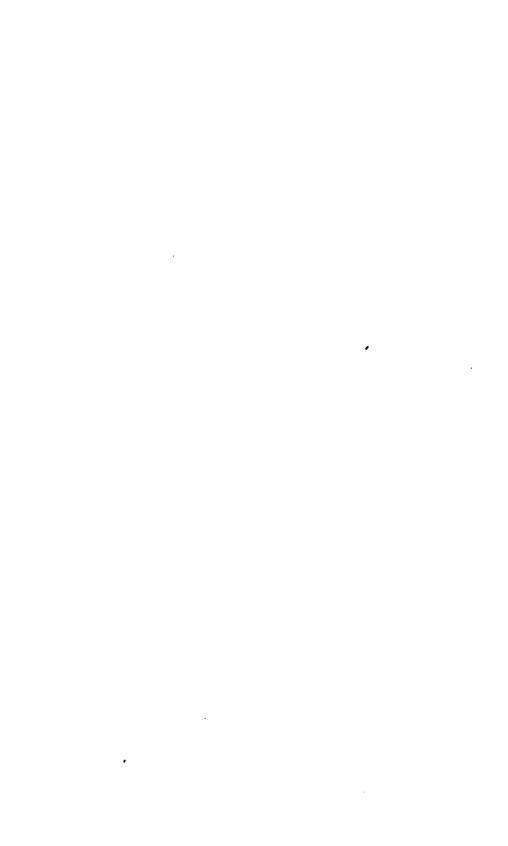
JAMES M. MILLER, Kansas HENRY T. BANNON, Ohio

WILLIAM H. STAFFORD, Wisconsin THETUS W. SIMS, Tennessee

WILLIAM H. RYAN, New York

NO. 33

WASHINGTON
GOVERNMENT PRINTING OFFICE
1908



# WOOD PULP, PRINT PAPER, ETC.

DEPARTMENT OF COMMERCE AND LABOR, OFFICE OF THE SECRETARY, Washington, July 23, 1908.

DEAR SIR: In compliance with a request received in a letter from the Secretary to the President, under date of the 17th instant, the Bureau of Statistics and the Census Bureau of this department have been instructed to furnish you as chairman of the select committee to investigate the price of wood pulp and print paper with all data on this subject that may be obtainable.

Yours, very truly,

WM. R. WHEELER, Acting Secretary.

Hon. James R. Mann, 1350 First National Bank Building, Chicago, Ill.

DEPARTMENT OF COMMERCE AND LABOR,
BUREAU OF STATISTICS,
Washington, July 24, 1908.

Hon. James R. Mann, M. C., Chicago, III.

My Dear Mr. Mann: In compliance with your request for information regarding the importation and exportation of pulp wood, wood pulp, and the various kinds of paper, submitted verbally just after the adjournment of Congress, I have prepared a series of tables showing, as far as practicable, the imports into and exports from the various countries in such detail as is shown in the official reports of the respective governments. The compilation of these tables and their transformation into our own units of quantity and value have necessitated much time and careful research on the part of several expert clerks, my desire having been to furnish as fully as possible the information asked for in your recent interview. All the available information on the subjects mentioned by you is contained in the tables.

As I was about to transmit the tables to you, I received a communication from the Secretary of this department under date of the 23d instant, inclosing a copy of House resolution No. 344 of the recent session of Congress, directing the appointment of a committee to investigate the price of wood pulp and print paper, in accordance with the President's instructions in a letter from his Secretary under date of the 17th instant. The letter directed me to furnish the committee with such data on that subject as may be in the possession of this bureau, and to compile for the committee such additional statistics of this character as may be obtainable.

As these tables comprise all of the data this bureau can furnish on the subject, and consist of seventy-four typewritten pages, I write to inquire whether it will be a compliance with the terms of the communication above referred to, to transmit the data to you as chairman of the committee at your home address in Chicago. In case this copy is desired for your own personal use, and another for the committee, I should know this fact before the papers leave my hands.

Very truly, yours,

O. P. Austin, Chief of Bureau.

1350 FIRST NATIONAL BANK BUILDING, Chicago, July 27, 1908.

Mr. O. P. Austin,

Chief Bureau of Statistics,

Department Commerce and Labor, Washington, D. C.

DEAR MR. AUSTIN: Referring to your letter of the 24th instant, relating to tables regarding imports, etc., pulp wood, wood pulp, etc., I beg to say that it will be a compliance with the terms of the communication from the Secretary of your department to transmit data you have collected to me as chairman of the committee at this address. I only desire the one copy, which I hope is in such shape that I can have it printed in the regular hearings of the committee.

Thanking you very much for your courtesy in the matter, I am,

Yours, very truly,

JAMES R. MANN, Chairman.

DEPARTMENT OF COMMERCE AND LABOR,
BUREAU OF STATISTICS,
Washington, July 29, 1908.

Hon. James R. Mann,
Chairman, Committee on Pulp and Paper Investigation,
1350 First National Bank Building, Chicago, III.

SIR: I am in receipt of your favor of the 27th instant, stating that it will be a compliance with the terms of the communication of the Secretary of this department to transmit to you the data in regard to pulp wood, wood pulp, and print paper, imported into and exported from the various countries of the world, which have been collected by this bureau for you.

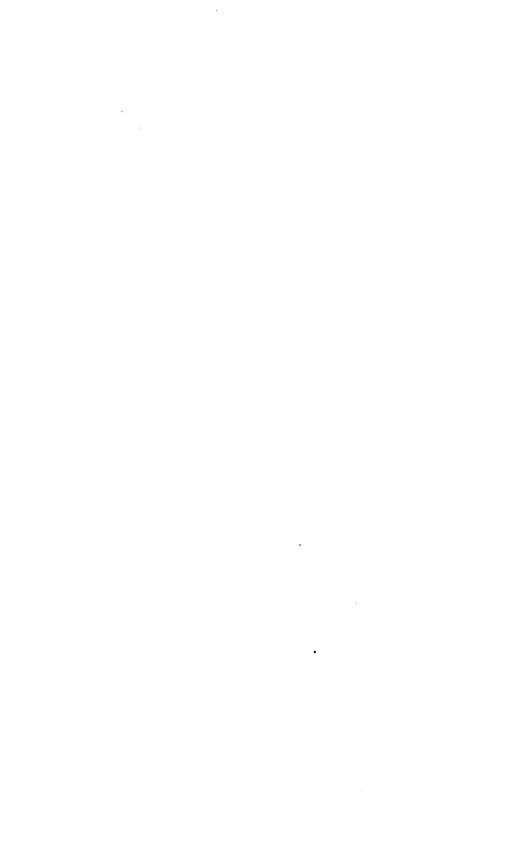
The data referred to are transmitted herewith, and it is hoped they will serve your purpose, as it would be impracticable to supplement the information with any additional data derived from the official

returns of the various countries.

Very truly, yours,

J. N. WHITNEY, Acting Chief of Bureau. STATEMENTS SHOWING TRADE IN WOOD PULP, CELLULOSE, AND OTHER ARTICLES USED IN THE MANUFACTURE OF PAPER, AND PAPER MANUFACTURES BY PRINCIPAL COUNTRIES OF THE WORLD, EXCLUDING THE UNITED STATES, FOR THE LATEST AVAILABLE YEARS FROM OFFICIAL SOURCES.

[PREPARED BY THE BUREAU OF STATISTICS, DEPARTMENT OF COMMERCE AND LABOR, JULY 20, 1908.]



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Mechanically produced, unbleached	2565
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Same as above, chemically produced, unbleached	2582
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Other printing, writing, drawing paper of one color	2583
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Imports, general—	
Esparto and other vegetable fiber for making paper	2584
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Paper, unprinted, on reels	2585
Paper, unprinted, not on reels.	2585
Exports, special— Paper, writing or printing and envelopes	2585
Taper, writing or printing and envelopes	2000
NORTH AMERICA.	
Bermuda, calendar year 1905:	
Imports, special—	
Paper and stationery	2596
Canada, year ending June 30, 1906:	
Imports, special—	
Wood pulp	2586
Printing paper of not greater value than 21 cents per pound	2586
Printing paper not elsewhere specified	2586
Exports, special— Wood pulp	2587
Wood blocks and other, for pulp	2587
Newfoundland, year ending June 30, 1906:	200.
Imports, general—	
Printing paper	2587
Costa Rica, calendar year 1906:	
Imports, general—	
Printing paper	2587
San Salvador, calendar year 1904:	
Imports, special—	050=
Paper and stationery	2587
Mexico, year ending June 30, 1906:	
Imports, general— Paper pasts, etc., undved, including old paper and cuttings	2588
Paper paste, etc., undyed, including old paper and cuttings  Paper of all kinds, weighing not over 50 grams per square meter	2588
White paper containing over 40 per cent wood pulp and weighing	2000
more than 50 and not over 150 grams per square meter	2588

Mexico, year ending June 30, 1906—Continued.	Page.
Imports, general—Continued.	
White paper not containing 40 per cent wood pulp and weighing more than 50 and not over 150 grams per square meter	2588
Colored paper, dyed in the paste, weighing over 50 and not more than	2000
150 grams per square meter	2588
Paper, uncolored, weighing over 50 and not more than 150 grams per	
square meter	2589
British West Indies:	
Barbados, calendar year 1905—	
Imports, special—	
Paper and stationery	<b>2589</b>
Jamaica, year ending March 31, 1906—	
Imports, special—	05.00
Printing paper.	2589
Leeward Islands, calendar year 1905—	
Imports, special—	2589
Paper and stationery	2000
Imports, general—	
Paper and stationery	2590
St. Vincent, year ending March 31, 1906—	DOOO
Imports, special—	
Paper and stationery	2590
SOUTH AMERICA.	
Argentina, calendar year 1905:	
Imports, special—	
Wood pulp for the manufacture of paper	2590
Printing paper	2590
Brazil, calendar year 1906:	
Imports, general—	0503
Wood pulp for the manufacture of paper	2591
Printing paper	2591
Chile, calendar year 1905:	
Imports, special— Printing paper	2591
Paper pulp.	2591
Guiana, British, year ending March 31, 1906:	2031
Imports, special—	
Paper, including manufactures	2591
Peru, calendar year 1905:	
Imports, special—	
Printing paper	2592
Uruguay, calendar year 1903:	
Imports, special—	
Printing paper	2592
ASIA.	
British India, year ending March 31, 1906:	
Imports, general-	
Printing paper	2592
Straits Settlements, calendar year 1905:	
Imports, general—	2502
Paper and paperware	2592
Exports, general— Paper and paperware	2593
Ceylon, calendar year 1904:	2400
Imports, special—	
Printing paper	2593
Siam, calendar year 1906:	
Imports, general—	
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New Zealand, calendar year 1906:	
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Printing paper	2594
Exports, general—	
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rinning and writing paper	ZUU!



Statement showing trade in wood pulp, cellulose, and other articles used in the manufacture of paper, and paper manufactures, by principal countries of the world, excluding the United States, for the latest available years from official sources.

[Prepared by the Bureau of Statistics, Department of Commerce and Labor, July 20, 1908.]

#### Austria-Hungary.

#### IMPORTS (SPECIAL) FOR CALENDAR YEAR 1906.

Imported from—	Quantity.	Value.
Cellulose, chemically produced: Bleached— Germany. Sweden. United States.	Pounds. 2,240,756 97,002 646,389	\$66,02 2,85 19,04
Total	2,984,147	87,92
Unbleached: Germany. United Kingdom. Sweden. United States.	272,709 33,730 88,404 49,383	5,777 711 1,877 1,04
Total	444,226	9,40
Cellulose, mechanically produced: Germany	322,753 22,928	3,492 241
Total	345,681	3,740
Cellulose mass (Holzstoffpappe): Trieste (free port) Germany Switzerland	2,646 582,676 8,157	36 8,584 120
Total	593,479	8,74
Paper stock, of wood, straw, etc.:  Mechanically produced, bleached— Germany United States	24,030 115,962	282 1,361
Total	139,992	1,642
Mechanically produced, unbleached— Germany Italy Russia United States	329,808 14,771 23,148 114,419	3,561 100 251 1,230
Total	482,146	5,217
Chemically produced, bleached and unbleached— Germany	1,021,612 22,707	32, 921 73:
Total	1, 044, 319	33, 65
Wood for the manufacture of cellulose: Germany	1,087,088 130,512	2, 700 32
Total	1, 217, 600	3,02
Paper, unsized, ordinary:  Coarse gray, half white and colored, unsized printing paper— Germany. Switzerland Italy. France. United Kingdom.	11,023 2,866 1,984 3,968 12,787	600 150 110 211 700
Total	32, 628	1,802

#### AUSTRIA-HUNGARY-Continued.

#### IMPORTS (SPECIAL) FOR CALENDAR YEAR 1906—Continued.

Imported from—	Quantity.	Value.
Printing paper, unsized, smooth:	=	=
For books and newspapers—	Pounds.	
Germany	190, 257	\$10, 511
Switzerland	4,850	266
France	31,0 <b>8</b> 5 6,173	1,717
I'nited Kingdom	15, 212	840
Russia China	1,543	84
China	661	37
Total	249, 781	13, 790
EXPORTS (SPECIAL), CALENDAR YEAR 1906.		
Exported to—	Quantity.	Value.
ll printing paper (unsized):	Pounds.	
ll printing paper (unsized): Trieste, free port	509, 704	\$14, 787
Hamburg, free port	2.341.285	68, <b>08</b> 0
Bremen, free port. Germany	1, 543 364, 200	41 10, <b>364</b>
Switzerland	37, 478	1,000
Italy.	351,634	9, 492
Netherlands	442,684	13, 016
Denmark	37, 478	1, 100
France	20, 062 6, 393	591 188
Belgium	320, 549	9, 445
United Kingdom	993, 613	28, 651
Sweden Norway	9, 259	273
Norway	26.014	767
Roumania	2 618 624	4, 137 76, 846
Servia	145, 504 2, 618, 624 1, 455, 036	42, 374
Turkey	5, 904, 359	170,686
Greece. British possessions in Mediterranean	1,732,815	49,852
British possessions in Mediterranean	42, 108 3, 197, 773 2, 336, 214	1,226 92,417 67,161
China. Japan	3, 197, 773	82, 11 i
British India.	2, 454, 382	70, 914
Asia a	192, 903	5, 668
Egypt	1, 297, 407	37, 582
German Africa.	200, 619 72, 752 202, 823	5, 911
Cape Colony	72,752	2, 138 5, 976
United States.	46, 958	1,306
Mexico.	46, 958	1,384
Brazil	695, 772	20, 501
Argentina. Chile.	378, 309	11,085
Peru	34, <b>833</b> 55, 115	1,026 1,624
America a.	57, 981	1,708
British Australasia	24, 030	708
Total	28, 655, 171	830, 126
iulose, ground:		
Mechanically produced— Trieste, free port	3, 549, 626	51,945
Hamburg, free port	501.106	7,209
Germany. Switzerland.	9,926,432 4,207,921	136,658 60,257
Switzerland	4,207,921	60,257
ItalyFrance.	16, 884, 811 31, 967	240, 462 346
Spain	74, 515	1,074
Belgium	332,674	4,781
Netherlands	27, 117	400
Great Britain	2,560,423	37, 437
		15,794
Russia	1,220,025	
	76,068 274,913	1,086 3,833

#### AUSTRIA-HUNGARY-Continued.

### EXPORTS (SPECIAL), CALENDAR YEAR 1906-Continued.

•	Exported to –	Quantity.	Value.
ellulose, ground—Cor	ntinued.		
Mechanically prod		Pounds.	
Servia		350,752	\$5,0
Turkey		4, 109, 815	60, 10
Greece		579,148 23,369	8, 4
British possess	ions in Mediterranean	23, 369	34
Japau		425, 929	6,2
British India.		239, 420	3.4
Asia o		22,487	3
Egypt	•••••	1, 138, 676	16,6
Timited Deader		11,684 104,278	1
Progii	•••••	104,278	1,5
Armentina	•••••	316, 581	4,5
Australasia		148, 149 223, 326	2,0 3,2
Total	-	47, 361, 202	
ellulose, chemically p	l_	11,301,202	673,7
Bleached—	'		
Trieste, free po	ort	1, 126, 110	33, 1
maniourg, iree	port	597,887	17,6
Germany		597, 887 16, 535, 382	487,2
Switzerland		3,599,671	106,0
italy		21, 153, 578	623,3
rance	••••••••••	20, 306, 130	598,3
Portugal	•••••••	45,856	1,3
Belgium		486, 555	14.3
Netherlands	***************************************	139.110	4.0
	***************************************	6, 821, 473 1, 451, 289	200,9
Russia		1, 451, 289	200,9 42,7
Roumania		264, 552	7,7
Greece	• • • • • • • • • • • • • • • • • • • •	21,826	6
Bulgaria	•••••	22, 487 97, 223	6
Turkey	•••••	97, 223	2,8
	•••••	320, 989	9,4
Japan	•••••••	1, 178, 800	34, 7
British India.	***************************************	89,286	2,6
United States.	••••••	2,035,066	59,9
Brazil	••••••	441,581	13.0
Argentina	***************************************	481,705	14.1
American cour	ntries b	481,705 80,688	14, 1 2, 3
Total		77, 297, 244	2,277,6
Unbleached—	·		
Trieste, iree po	ort	787, 263	15,9
Hamburg, free	port	232,497	10,8
Germany	•	15, 492, 385	313,8
Switzerland	• • • • • • • • • • • • • • • • • • • •	3, 357, 165	68,0
Taly	• • • • • • • • • • • • • • • • • • • •	23,863,693	483,4
r rance	•••••••••••••••••••••••••••••••••••••••	16, 422, 507 22, 266	332,6
spain		22, 266	4
Deigium	•••••	2, 295, 871	46,5
Green Britain.	• • • • • • • • • • • • • • • • • • • •	1,372,584	27,8
Dunele		44,533	
Russia	• • • • • • • • • • • • • • • • • • • •	968, 260	19,6
Roumania	•••••	110, 450	2,2
	••••••	66, 138	1,3
Turkey	••••••	66, 138	1.3
Japan	• • • • • • • • • • • • • • • • • • • •	58,642	1,1
Egypt	***************************************	44,974	9
Egypt	•••••	22,046	. 4
Umwa sakes.		68, 784	1,3
Deneil	llasia	11,905 22,046	4
Brazil		<del></del> -	
Brazil British Austra	-	65, 633, 147	1,020.0
Brazil British Austra  Total  aper stock, of wood.	straw, esparto, and other similar fibers, mechanically	65, 633, 147	1,020,0
Brazil	, straw, esparto, and other similar fibers, mechanically	65, 633, 147	1,328,0
Brazil British Austra  Total  aper stock, of wood, ground: Unbleached	, straw, esparto, and other similar fibers, mechanically	<del></del>	
Brazil	, straw, esparto, and other similar fibers, mechanically	387, 569	1,329,5
Brazil British Austra  Total  aper stock, of wood, ground: Unbleached— Trieste, free po Hamburg, free	=	<del></del>	

#### AUSTRIA-HUNGARY-Continued.

#### EXPORTS (SPECIAL), CALENDAR YEAR 1906—Continued.

,	Exported to—	Quantity.	√alue.
Paper stock, of	wood, straw, esparto, and other similar fibers, mech	anically	
ground—Cont	inued.	1	
	I—Continued.	Pounds.	
	land		\$18,412
			163, <b>633</b>
France.			
Spain			3,461
Belgiun	A		4,033
Netherl	ands		246
Great B	ritain		10,371
Russia.			45, 444
Rouma	nia		3,859
Bulgari	<b>a </b>	65,477	708
Servia.			310
Turkey			1,245
Greece.		68,563	742
Japan			1,491
	India		298
			98
	States		1,512
			396
	na		248
	Australasia		1,677
	33ia ¢		289
Total.		27,837,925	301, 190

#### σ Subdivisions not separately stated.

#### BELGIUM.

#### IMPORTS (SPECIAL), CALENDAR YEAR 1906.

Imported from—	Quantity.	Value.
Printing paper, including writing, drawing, and wrapping paper:	Pounds.	
Germany	19, 324, 042	\$981, 19
United Kingdom	3, 124, 134	158, 63
Austria-Hungary	1,117,547	56, 74
United States		5, 30
France.		78, 90
Hamburg, free port		101, 519
· Italy		4, 03
Norway		17, 43
Netherlands.		125, 07
Sweden		82, 35
Switzerland		929
Other countries		1,407
Total	31,679,106	1, 608, 527
Vood pulp:		
Germany	20, 502, 555	380,874
Austria-Hungary		41, 236
United States		114, 35
France		8,24
Hamburg, free port.		28, 697
Norway		2, 200, 365
Netherlands		27, 413
Russia		771.538
Sweden.		678, 290
Other countries.		
Other countries	92, 709	1,72
Total	228, 926, 769	4, 252, 740

#### Belgium-Continued.

#### EXPORTS (SPECIAL), CALENDAR YEAR 1906.

Exported to—	Quantity.	Value.
nting paper, including writing, drawing, and wrapping paper:	Pounds.	
Germany	. 997, 864	\$50,66
United Kingdom		2, 128, 90
Australia		179, 14
Brazil		
		253, 50
Canada		87,52
Cape Colony		28, 34
Chile		27,75
China		167,72
Cuba	. 1, 141, 095	83, 32
Denmark	. 549, 435	27, 89
Egypt	464, 979	23,60
Spain		43, 71
United States.		163, 59
France		69.79
Greece		13,66
Hamburg, free port	. 1.959, 153	99, 47
British India		189,78
Dutch East Indies		20, 32
Straits Settlements		15, 58
Italy	. 105, 799	5, 37
Japan	. 13,660,824	693, 63
Mexico.		21,00
Norway		01 00
Netherlands		492.03
Peru		19. 29
Portugal		3,30
Argentina		70,66
Sweden		15, 10
8witzerland		13,65
Turkey	. 2, 489, 271	126, 39
Other countries.	. 2, 121, 031	107,70
Total	. 103, 878, 192	5, 274, 48
od pulp:		
Germany		241, 42
United Kingdom		69, 29
Brazil	. 23,942	64
Cuba	. 2.068, 186	55, 89
Spain	. 10,627,563	287, 20
United States		177.99
France		657.00
British India		4.98
Italy		
		42,54
Mexico		70, 12
Netherlands		120, 99
Portugal		<b>56, 4</b> 6
Argentina		39, 45
Sweden		2,08
Other countries	. 660, 704	17, 85
Total	68, 232, 385	1,843,97

#### DENMARK (INCLUDING COPENHAGEN, FREE PORT).

#### IMPORTS (GENERAL), CALENDAR YEAR 1905.

Imported from—	Quantity.	Value.
Wood mass for paper (cellulose, straw mass, and paper mass):	Pounds.	
Norway	40,929,052	1
Sweden	39, 180, 453	
Russia	508,022	
Germany	1, 526, 532	
Netherlands.	507 045	
United States	597, 945 143, 260	
Umwed states	140, 200	
Total	82, 885, 264	\$604,608
Writing and printing paper, and other paper with coloring matter added to the		
mass: Norway	660, 934	
Sweden	5, 753, 834	
Russia	8, 612	
	0,012	
Germany	4,717,547	
United Kingdom	607, 587	
Netherlands	1, 599, 555	
Belgium	530, 266	
France	16, 294	
Italy	137	
Austria-Hungary	87	
Switzerland	71	
United States	44, 303	
Warehouses	578, 745	
Total	14, 517, 972	739, 680
EXPORTS (TOTAL), CALENDAR YEAR 1905.		
EXPORTS (TOTAL), CALENDAR YEAR 1905.  Exported to—	Quantity.	Value.
Exported to—	Quantity.	Value.
		Value.
Exported to—  Wood mass for paper manufacture (cellulose, straw and paper mass):	Pounds.	Value.
Exported to—  Wood mass for paper manufacture (cellulose, straw and paper mass):  Norway.	Pounds. 557 133,783	
Exported to—  Wood mass for paper manufacture (cellulose, straw and paper mass): Norway. Sweden Russia Germany.	Pounds. 557 133, 783 523, 781 142, 307	
Exported to—  Wood mass for paper manufacture (cellulose, straw and paper mass): Norway. Sweden. Russia. Germany. United Kingdom.	Pounds. 557 133, 783 523, 781 142, 307 6, 614	
Exported to—  Wood mass for paper manufacture (cellulose, straw and paper mass): Norway. Sweden Russia Germany.	Pounds. 557 133, 783 523, 781 142, 307 6, 614 13, 550, 684	
Exported to—  Wood mass for paper manufacture (cellulose, straw and paper mass): Norway. Sweden. Russia. Germany. United Kingdom.	Pounds. 557 133, 783 523, 781 142, 307 6, 614	
Exported to—  Wood mass for paper manufacture (cellulose, straw and paper mass): Norway. Sweien. Russia. Germany. United Kingdom. United States. West Indies.	Pounds. 557 133,783 523,781 142,307 6,614 13,550,684 1,145,840	
Exported to—  Wood mass for paper manufacture (cellulose, straw and paper mass): Norway. Sweden. Russia. Germany. United Kingdom. United States. West Indies.  Total.	Pounds. 557 133, 783 523, 781 142, 307 6, 614 13, 550, 684	
Exported to—  Wood mass for paper manufacture (cellulose, straw and paper mass): Norway. Sweden. Russia. Germany. United Kingdom. United States. West Indies.  Total.  Writing and printing paper, and all paper with coloring matter added in the	Pounds. 557 133,783 523,781 142,307 6,614 13,550,684 1,145,840	
Exported to—  Wood mass for paper manufacture (cellulose, straw and paper mass): Norway Sweden. Russia. Germany. United Kingdom. United States. West Indies.  Total  Writing and printing paper, and all paper with coloring matter added in the mass:	Pounds. 557 133,783 523,781 142,307 6,614 13,550,684 1,145,840	\$120,627
Exported to—  Wood mass for paper manufacture (cellulose, straw and paper mass): Norway. Sweden. Russia. Germany. United Kingdom. United States. West Indies.  Total.  Writing and printing paper, and all paper with coloring matter added in the mass: Norway.	Pounds. 5 133, 783 523, 781 142, 307 6, 614 13, 550, 684 1, 145, 840 15, 503, 566 39, 468	\$120,622
Exported to—  Wood mass for paper manufacture (cellulose, straw and paper mass): Norway. Sweden Russia Germany. United Kingdom United States West Indies  Total.  Writing and printing paper, and all paper with coloring matter added in the mass: Norway. Sweden	Pounds. 133,783 523,781 142,307 6,614 13,550,684 1,145,840 15,503,566	\$120,627
Exported to—  Wood mass for paper manufacture (cellulose, straw and paper mass): Norway. Sweden. Russia. Germany. United Kingdom. United States. West Indies.  Total.  Writing and printing paper, and all paper with coloring matter added in the mass: Norway. Sweden. Russia.	Pounds. 523, 783 523, 781 142, 307 6, 614 13, 550, 684 1, 145, 840 15, 503, 566 39, 468 189, 535 34, 943	\$120,627
Exported to—  Wood mass for paper manufacture (cellulose, straw and paper mass): Norway Sweden. Russia. Germany. United Kingdom. United States. West Indies.  Total.  Writing and printing paper, and all paper with coloring matter added in the mass: Norway. Sweden. Russia. Germany.	Pounds. 53,781 133,783 523,781 142,307 6,614 13,550,684 1,145,840 15,503,566 39,468 136,535 34,943 422,369	\$120,627
Exported to—  Wood mass for paper manufacture (cellulose, straw and paper mass): Norway Sweden. Russia. Germany. United Kingdom. United States. West Indies.  Total.  Writing and printing paper, and all paper with coloring matter added in the mass: Norway. Sweden. Russia. Germany. United Kingdom.	Pounds. 133, 783 523, 781 142, 307 16, 614 13, 550, 684 1, 145, 840 15, 503, 566 39, 468 136, 535 34, 943 432, 349 235, 839	\$120,627
Exported to—  Wood mass for paper manufacture (cellulose, straw and paper mass): Norway. Sweden. Russia. Germany. United Kingdom. United States. West Indies.  Total.  Writing and printing paper, and all paper with coloring matter added in the mass: Norway. Sweden. Russia. Germany. United Kingdom. Notherlands.	Pounds. 5 133, 783 523, 781 142, 307 6, 614 13, 550, 684 1, 145, 840 15, 503, 566 39, 468 136, 535 34, 943 432, 349 235, 839 235, 839	\$120,627
Exported to—  Wood mass for paper manufacture (cellulose, straw and paper mass): Norway. Sweden Russia Germany. United Kingdom United States West Indies  Total.  Writing and printing paper, and all paper with coloring matter added in the mass: Norway. Sweden Russia Germany. United Kingdom Netherlands. Belgium	Pounds. 133, 783 523, 781 142, 307 6, 614 13, 550, 684 1, 145, 840 15, 503, 566 39, 468 139, 535 34, 943 422, 349 225, 839 145, 504 49, 604	\$120,627
Exported to—  Wood mass for paper manufacture (cellulose, straw and paper mass): Norway. Sweden. Russia. Germany. United Kingdom. United States. West Indies.  Total.  Writing and printing paper, and all paper with coloring matter added in the mass: Norway. Sweden. Russia. Germany. United Kingdom. Netherlands. Belgium. United States.	Pounds. 523, 781 142, 307 6, 614 13, 550, 684 1, 145, 840 15, 503, 566 39, 468 139, 535 34, 943 422, 369 235, 839 145, 504 49, 604 1, 808, 874	\$120,627
Exported to—  Wood mass for paper manufacture (cellulose, straw and paper mass): Norway. Sweden. Russia. Germany. United Kingdom. United States. West Indies.  Total.  Writing and printing paper, and all paper with coloring matter added in the mass: Norway. Sweden. Russia. Germany. United Kingdom. Netherlands. Belgium. United States.	Pounds. 133,783 523,781 142,307 6,614 13,550,684 1,145,840 15,503,566 39,468 136,535 34,943 422,349 235,839 145,504 49,604 1,808,874 442,022	\$120,627
Exported to—  Wood mass for paper manufacture (cellulose, straw and paper mass): Norway. Sweden Russia Germany United Kingdom United States West Indies.  Total.  Writing and printing paper, and all paper with coloring matter added in the mass: Norway. Sweden Russia Germany United Kingdom Netherlands. Belgium United States West Indies.  United States West Indies. East Indies, China, and Pacific Islands.	Pounds. 133, 783 523, 781 142, 307 6, 614 13, 550, 684 1, 145, 840 15, 503, 566 39, 468 136, 535 34, 943 422, 369 235, 839 145, 504 49, 604 1, 808, 874 442, 022 986, 559	\$120,627
Exported to—  Wood mass for paper manufacture (cellulose, straw and paper mass): Norway. Sweden Russia Germany. United Kingdom United States West Indies  Total.  Writing and printing paper, and all paper with coloring matter added in the mass: Norway. Sweden Russia Germany. United Kingdom Netherlands. Belgium	Pounds. 5 133, 783 523, 781 142, 307 6, 614 13, 550, 684 1, 145, 840 15, 503, 566 39, 468 38, 943 422, 349 225, 839 245, 839 241, 943 442, 022 986, 559 24, 797	\$120,627
Exported to—  Wood mass for paper manufacture (cellulose, straw and paper mass): Norway. Sweden Russia Germany United Kingdom United States West Indies.  Total.  Writing and printing paper, and all paper with coloring matter added in the mass: Norway. Sweden Russia Germany United Kingdom Netherlands. Belgium United States West Indies.  United States West Indies. East Indies, China, and Pacific Islands.	Pounds. 133,783 523,781 142,307 16,614 13,550,684 1,145,840 15,503,566 39,468 136,535 34,943 422,369 235,839 145,504 49,604 1,808,874 444,022 986,559 24,797 64,496	\$120,627
Wood mass for paper manufacture (cellulose, straw and paper mass): Norway. Sweden. Russia Germany. United Kingdom. United States West Indies.  Total.  Writing and printing paper, and all paper with coloring matter added in the mass: Norway. Sweden. Russia Germany. United Kingdom Netherlands. Belgium. United States West Indies.  East Indies, China, and Pacific Islands. Faroes.	Pounds. 5 133, 783 523, 781 142, 307 6, 614 13, 550, 684 1, 145, 840 15, 503, 566 39, 468 38, 943 422, 349 225, 839 245, 839 241, 943 442, 022 986, 559 24, 797	\$120,627

c Value not separately stated.

#### FRANCE.

#### IMPORTS (SPECIAL), CALENDAR YEAR 1906.

Imported from—	Quantity.	Value.
ellulose, mechanically produced: Russia.	Pounds. 37,371,656	
Sweden	100,876,464	
Norway	178,517,089	
United KingdomGermany	1,284,350 5,708,870	
Canada	8,273,948	
Other foreign countries	893,093	
Tunis	220	
Total	332,905,690	\$3,788,678
allulose, chemically produced: Russia	4,302,982	
Sweden	64. 488. 951	
Norway		
Germany	47,903,577	
Belgium		
Switzerland	9,619,208	
Austria-Hungary	39,000,349 4,119,337	
Other foreign countries.	3,161,208	
French colonies	13,229	
Total	230,921,183	4,851,747

#### EXPORTS (SPECIAL), CALENDAR YEAR 1906.

Exported to—	Quantity.	Value.
Cellulose, mechanically produced:	Pounds.	
GermanySpain		
Other foreign countries	14,330 1,984	
Total	5,653,313	\$64,338
Cellulose, chemically produced:		
Germany	299,167	
Belgium. Switzerland	445,554 119,711	
Italy	176,811	
Other foreign countries	36,817	
Total	1,078,060	22,650

#### GERMANY.

#### IMPORTS (SPECIAL), CALENDAR YEAR 1905.

Imported from—	Quantity.	Value.
Wood pulp, ground: Norway. Austria-Hungary Russia Finland. Sweden. Other countries.	9,722,286 3,395,084 13,448,060 8,752,262	\$23,800 95,200 23,800 142,800 95,200
Total	37,279,786	380,800
Cellulose, straw mass, and other fiber mass: Netherlands Norway. Austris-Hungary	5,996,512	23,800 119,000 714,000

⁴ Values less than 100,000 marks are omitted in the German official reports.

#### GERMANY-Continued.

#### IMPORTS (SPECIAL), CALENDAR YEAR 1905-Continued.

Imported from—	Quantity.	Value.
Cellulose, straw mass, and other fiber mass—Continued.	Pounds.	
Russia	3,659,636	\$71,400
Finland	6,503,570	119,000
Sweden		357,000
United States		95,200
Other countries	992,000	(a)
Total	72,465,202	1,499,400
Pulp wood (wood for grinding and wood for the manufacture of cellulose):		
Austria-Hungary	359, 526, 168	975,800
Russia	281,725,834	761,600
Finland	215,543,742	571,200
Other countries	2,160,508	(a)
Total	858,956,252	2,308,600
Printing paper, including colored: From all countries	400,000	100,000

#### a Values less than 100,000 marks are omitted in the German official reports.

#### EXPORTS (SPECIAL), CALENDAR YEAR 1905.

Exported to—	Quantity.	Value.
Wood pulp, ground:	Pounds.	
France		\$71,400
Other countries	3, 439, 211	47, 600
Total	, 9, 457, 850	119,000
Cellulose, straw mass, and other fiber mass:		
Belgium	13, 249, 780	309, 400
France		833,000
Great Britain	19, 114, 076	428, 400
Italy		404,600
Netherlands	9,744,431	214, 200
Austria-Hungary	4, 188, 782	95, 200
Russia	3,681,719	95, 200
Switzerland	9, 435, 784	214, 200
Spain	, 4,872,215	119,000
Argentina.	4,012,413	95, 200
Mexico		47,600
United States.	15,807,142	357,000
Other countries	3,659,673	47,600
Total	144, 204, 348	3, 260, 600
Pulp wood (wood for the manufacture of cellulose):		
France	43, 475, 153	142,800
Switzerland		119,000
Other countries		(a)
Total	78,506,602	261,800
Printing paper, including colored:		
Great Britain	16,733,084	404,600
Netherlands		142, 800
British India, etc.		47,600
Janan		142,800
Argentina		309, 400
Brazil		190, 400
Chile.		47,600
Uruguay		23, 800
United States		23, 800
Australian Commonwealth.		71, 400
Other countries.		214, 200
Total	67,659,860	1,618,400

#### GREECE.

#### IMPORTS (SPECIAL), CALENDAR YEAR 1905.

Imported from—	Quantity.	Value.
Paper, ordinary, unsized:	Pounds.	
Austria-Hungary	949,916	\$64,986
Germany	312,618	21, 387
Netherlands .		2, 661
Belgium	17.079	1, 168
Italy	14,862	1,017
United Kingdom	8,291	567
France.	550	37
4 4 GMA-00	330	
Total	1,342,211	91,823
Paper, sized:		
Austria-Hungary	553, 438	49, 220
Germany	76, 723	6,824
Netherlands .	13, 787	1,226
Italy	10,712	953
Belgium	9, 803	872
United Kingdom	6, 522	580
Turkey	4, 957	441
France	4,370	388
Total	680, 312	60, 504
Paper, printing, for newspapers: Netherlands.		
Netherlands	1,351,930	85, 170
Austria-Hungary	390,529	24, 045
Germany	136,977	8, 434
France.	1,918	118
Total	1,881,354	117,767

#### ITALY.

#### IMPORTS (SPECIAL), CALENDAR YEAR, 1905.

Imported from—	Quantity.	Value.
Cellulose:	Pounds.	
Austria-Hungary	. 38, 216, 080	<b>293</b> 6, 767
Belgium	. 1, 275, 141	31, 257
Denmark	. 111,332	2,729
France	. 302,030	7, 403
Germany	29,012,536	711, 166
United Kingdom	2,559,982	62,751
Netherlands	2,390,889	58,606
Norway and Sweden	. 1,083,120	26, 550
Switzerland	1,555,786	38, 136
United States	586,644	14, 380
Total	. 77,093,540	1,889,745
Wood and straw pulp, etc. (wet), other than cellulose: Switzerland	23,148	263
Wood and straw pulp, etc. (dry), other than cellulose:	i	
Austria-Hungary	. 12,069,524	190, 191
Belgium	. 236,774	3,731
Germany	. 3,683,666	58, 047
United Kingdom	. 363, 318	5, 725
Netherlands	249, 781	3,936
Norway and Sweden	45,856	723
United States	. 23, 369	368
Total	16,672,288	262, 721
Paper in paste, tinted or colored in the mass, all kinds:		
Austria-Hungary	251,986	16, 545
Belgium	. 77, 381	5, 081
France	483,689	31,758
Germany	2,481,939	162,960
United Kingdom	257,938	16, 936
Netherlands	6,173	405
Switzerland	. 363,318	23, 855
United States	85,979	5,645

#### ITALY—Continued.

#### EXPORTS (SPECIAL), CALENDAR YEAR 1905.

Exported to—	Quantity.	Value.
Food pulp and paper:	Pounds.	
Austria-Hungary	1, 527, 567	\$113, 670
Belgium	41.887	3, 117
	91,711	6,82
France.		
Germany	. 245, 372	18, 25
United Kingdom		56, 597
Greece	. 13,889	1,034
Malta		7, 77
Montenegro	9, 259	681
Netherlands.	10,362	77
Portugal		1,60
Spain	16.314	1.21
		16, 19
Switzerland		
Turkey in Europe		37, 45
Turkey in Asia	. 298, 944	22, 24
British India and Ceylon	. 649.916	48, 36
China	16,755	1.24
Japan		3. 52
Dutch possessions		13
Egypt.		58.07
		7.92
Tunis		
<u>Tripoli</u>	. 21,385	1,59
Eritrea		1,36
Cape Colony	. 19, 180	1.42
All other Africa	4, 189	31
United States	252, 808	18.81
Canada	5, 512	41
Mexico		9. 97
Mexico	. 104, 200	
Cuba and Porto Rico.	. 4, 189	31
Other Central American States		18, 27
Brazil		35, 139
Peru		18,07
Argentina	. 2,362,670	175,81
Uruguay	10.802	80-
Chile		29, 21
All other South America.	1.764	13
Australia	5,071	37
Australia	. 3,071	3/
Total	., 10, 761, 534	718, 75
ellulose:		
France	. 106, 482	2,61
Germany		8.23
Switzerland		8,07
Total	. 771,830	18, 92

#### Norway.

#### IMPORTS, CALENDAR YEAR 1906.

Imported from—	Quantity.	Value.
Wood mass, cellulose, pulp, etc.: Sweden by sea and rall. Denmark. Germany. United Kingdom.	143,630	·
Total	94, 905, 407	\$1,153,713
Printing, drawing, and filtering paper: Sweden by sea and rail. Denmark. Germany. Netherlands. Belgium United Kingdom. Other countries.	32,915	
Total	2, 179, 776	92,755

#### NORWAY-Continued.

#### EXPORTS, CALENDAR YEAR 1906.

Exported to—	Quantity.	Value.
Ward mass day (Normarian madusa):	Pounds.	
Wood mass, dry (Norwegian produce): Sweden by sea	815, 702	
Denmark	1, 450, 059	
Germany	4,086,887	
Netherlands	385, 805	
Belgium	385, 805 1, 278, 205	
United Kingdom	5, 176, 379	
France	9 094 262	
Portugal and Madeira	191,800 4,217,576 1,351,751	ļ
Spain	4, 217, 576	
Italy	1,351,751	
East Indies.	306, 880	
China	286, 598 132, 276	
Total	28,790,180	\$248,49
Vood mass, dry (foreign produce):	oen our	1
Germany	202, 215	
NetherlandsBelgium	262, 21 <b>5</b> 353, 353 1, 102, 529	
Belgium	6,693,916	
France.	5, 830, 351	
Portugal and Madeira.	5, 830, 351 22, 046	
Spain	1,990,423	
Total	16, 254, 824	140, 2
		` <del></del>
Vood mass, wet (Norwegian produce): Sweden by sea	44, 092	١
Denmark		1
Germany	337, 304	
Netherlands	50, 426, 080	
Belgium	337, 304 50, 426, 080 85, 255, 322 487, 923, 373	· · · · · · · · · · · ·
United Kingdom	487, 923, 373	· · · · · · · · · · · · · · · · · · ·
France	144, 485, 361 1, 147, 494	
Spain	1,147,494	
Total	798, 567, 033	3, 252, 0
Vood mass, wet (foreign produce):		
Belgium	2, 080, 481	
United Kingdom	22,000,145	
France	1, 335, 789	
Total	25, 416, 415	103, 5
ood pulp (Traepap, German, "Holzstoffpappe,") (Norwegian produce):		
Vood pulp (Traepap, German, "Holzstoffpappe,") (Norwegian produce):  Sweden, by sea	15, 432	
Denmark.	411.642	
Russia, Arctic ports	2,800 751,350	
Germany	751,350	
Netherlands	1,045,091	j
	498, 041	
Belgium	7,647,449 7,496	
United Kingdom		
	7,496	
United Kingdom	10, 379, 301	201,8
United Kingdom Other countries Total		201,8
United Kingdom Other countries Total Trinting paper (Norwegian produce):	10, 379, 301	201,8
United Kingdom. Other countries  Total  Printing paper (Norwegian produce): Sweden, by sea. Denmark	2, 116 181, 196	201,8
United Kingdom. Other countries  Total  Trinting paper (Norwegian produce): Sweden, by sea. Denmark Russia, Baltic ports.	2, 116 181, 196 82, 673	201,8
United Kingdom Other countries  Total  'rinting paper (Norwegian produce): Sweden, by sea. Denmark Russia, Baltic ports. Germany	2, 116 181, 196 82, 673 11, 180, 452	201,8
United Kingdom. Other countries  Total  rinting paper (Norwegian produce): Sweden, by sea. Denmark Russia, Baitic ports Germany Netherlands.	2, 116 181, 196 82, 673 11, 180, 452 4, 078, 995	201,8
United Kingdom Other countries  Total  Total  Sweden, by sea.  Denmark Russia, Baltic ports Germany Netherlands	2, 116 181, 196 82, 673 11, 180, 452 4, 078, 995	201,8
United Kingdom. Other countries  Total  rinting paper (Norwegian produce): Sweden, by sea Denmark Russia, Baltic ports Germany Netherlands Belgium United Kingdom	2, 116 181, 196 82, 673 11, 180, 452 4, 078, 995 176, 831 93, 637, 916	201,8
United Kingdom. Other countries  Total  Printing paper (Norwegian produce): Sweden, by sea Denmark Russia, Baltic ports Germany Netherlands Belgium United Kingdom France	2, 116 181, 196 82, 673 11, 180, 452 4, 078, 995 176, 831 93, 637, 916 3, 580, 138	201,8
United Kingdom Other countries  Total  Pinting paper (Norwegian produce): Sweden, by sea. Denmark Russia, Baltic ports. Germany Netherlands. Belgium United Kingdom France Africa.	2, 116 181, 196 82, 673 11, 180, 452 4, 078, 995 176, 831 93, 637, 916 3, 580, 138 138, 670	201,8
United Kingdom Other countries  Total  Printing paper (Norwegian produce): Sweden, by sea Demmark Russia, Baltic ports Germany Netherlands Belgium United Kingdom France	2, 116 181, 196 82, 673 11, 180, 452 4, 078, 995 176, 831 93, 637, 916 3, 580, 138	
United Kingdom Other countries  Total  Printing paper (Norwegian produce): Sweden, by sea Denmark Russia, Baltic ports Germany Netherlands Belgium United Kingdom France Africa Australia Other countries	2, 116 181, 196 82, 673 11, 180, 452 4,078, 995 176, 831 93, 637, 916 3, 580, 138 138, 670 315, 809 17, 769	2,219,3
United Kingdom Other countries  Total  Pinting paper (Norwegian produce): Sweden, by sea Denmark Russia, Baltic ports. Germany Netherlands. Belgium United Kingdom France Africa. Australia. Other countries	2, 116 181, 196 82, 673 11, 180, 452 4, 078, 995 176, 831 93, 637, 916 3, 580, 138 138, 670	
United Kingdom Other countries  Total Printing paper (Norwegian produce): Sweden, by sea Denmark Russia, Baltic ports. Germany Netherlands Belgium United Kingdom France Africa. Australia. Other countries.  Total. Pallulose, dry (Norwegian produce):	2, 116 181, 196 82, 673 11, 180, 452 4, 078, 995 176, 831 93, 637, 916 3, 580, 138 138, 670 315, 809 17, 769 113, 392, 565	
United Kingdom Other countries  Total  Printing paper (Norwegian produce): Sweden, by sea Denmark Russia, Baltic ports. Germany Netherlands Belgium United Kingdom France Africa. Australia. Other countries	2, 116 181, 196 82, 673 11, 180, 452 4,078, 995 176, 831 93, 637, 916 3, 580, 138 138, 670 315, 809 17, 769	

#### NORWAY-Continued.

#### EXPORTS, CALENDAR YEAR 1906-Continued.

Exported to—	Quantity.	Value.
Cellulose, dry (Norwegian produce)—Continued.	Pounds.	
Germany		
Netherlands		
Belgium		
United Kingdom	. 140, 398, 684	• • • • • • • • • • • • • • • • • • • •
France.	. 35, 483, 132	• • • • • • • • • • • • • • • • • • • •
Portugal and Madeira		
Spain	9, 243, 959	,
Ifaly		
East Indies		
Japan		
Australia	. 661,387	
United States	. 42, 365, 963	1
Mexico and Central America	2, 236, 810	
Argentina		1
Total	. 271, 000, 136	\$4,941,511
Cellulose, dry (foreign produce):		
Denmark	286, 601	
	. 200,001	
Germany		
Netherlands		
Belgium	. 14,030,878	
United Kingdom	. 29,814,607	'
France		
Portugal and Madeira	. 44,092	
Spain	. 2, 621, 583	
Ifaly	242,508	j
Total	59, 441, 336	1,083,87
		=======================================
ellulose, wet (Norwegian produce):		
Denmark	. 1,822,782	
Netherlands	. 1.819.872	!
Belgium	. 765,886	
United Kingdom		
France.		
Spain		
•	·	
Total	. 16, 350, 979	129, 20
Cellulose, wet (foreign produce):		
Netherlands	. 22,046	180
Blocks for the manufacture of cellulose:	Cubic feet.	
Sweden, by sea		
Denmark		
United Kingdom.		
France		
Spain	15,610	
Total	1, 504, 200	85, 62

 $Weight, \ calculated \ in \ the \ Statistiske \ Central bureau, \ 23,427,250 \ kilograms, \ equal \ to \ 51,647,715 \ pounds.$ 

#### PORTUGAL.

#### IMPORTS (SPECIAL), CALENDAR YEAR 1906.

Imported from—	Quantity.	Value.
Printing paper, for newspapers: Germany Austria-Hungary Belgium France Netherlands United Kingdom Sweden Switzerland	Pounds. 424, 915 1, 113 9, 982 666 14, 802 70, 190 91, 257 25, 020	\$16, 216 56 338 422 531 5, 521 1, 663
Total	637,945	25,324

#### ROUMANIA.

#### IMPORTS (SPECIAL), CALENDAR YEAR 1906.

Imported from—	Quantity.	Value.
Pulp of wood, straw, and other vegetable fibers, mechanically produced: Austria-Hungary	Pounds. 248,776 267	_
Total	249,043	*\$3,486
Printing paper, uncalendered: United Kingdom. Austria-Hungary. Belgium. Switzerland. France. Germany. Italy.	84 4,392 443 53 243 1,206 212	
Total	6,632	26
Printing paper, calendered: United Kingdom. Austria-Hungary. France. Germany.	414	
Total	6,570	344
Paper in rolls:     United Kingdom.     Austria-Hungary.     Switzerland.     France.     Germany.     Russia.	82 2,895 2 2,727 11,896 110	
Total	17,712	936

#### Russia.

#### IMPORTS (SPECIAL), CALENDAR YEAR 1905.

Imported from—	Quantity.	Value.
Wood paper mass, pressed into sheets like pasteboard, etc.:	Pounds.	
Austria-Hungary	361	\$36
Germany		857
China	289	10
Finland	16,394,378	482, 930
Total	16, 458, 730	483, 833
Cellulose of all kinds:		
Austria-Hungary	500,079	15,689
Belgium		5.904
Great Britain		73
Germany	3,850,695	120,812
Netherlands		16,667
Denmark		5,953
Norway		4,306
United States		1,731
8weden	186, 157	5,841
Finland	6,313,027	162,056
Total	11,953,866	339,032
Paper, unsized, not elsewhere specified, white and colored:		
Austria-Hungary	1,697	364
Great Britain		1,502
Germany	414, 458	32,690
Netherlands	13,217	1,931
Denmark	325	155
China	138,706	22,676
Persia		´ 1

#### Russia-Continued.

#### IMPORTS (SPECIAL), CALENDAR YEAR 1905-Continued.

Imported from—	Quantity.	Value.
aper, unsized, not elsewhere specified, white and colored—Continued.	Pounds.	
Turkey	72	\$3
France	6, 175	909
8weden	1,950	366
Finland	831	46
Total	587,759	60, 643
7-141		
riting, printing, and other paper:	80.450	10 001
Austria-Hungary	30,659	13,361
Belgium	6,139	2,841
Bulgaria		2
Great Britain	11,231	3,642
Germany	395,066	186,297
Netherlands	2,636	581
Greece	253	103
Denmark	433	102
Egypt		8
Spain	36	19
Italy	<b>397</b> i	112
China	73,777	9,462
Norway	36	22
Persia	36	3
Portugal	·	4
Roumania	72	9
United States	831	257
Turkey	758	266
France.	19,753	7.378
Switzerland.	2,239	1,094
Sweden		846
Finland	95,517	9.966
Other countries	686	250
Total	641,638	236,623

#### EXPORTS (SPECIAL), CALENDAR YEAR 1905.

Exported to—	Quantity.	Value.
Wood paper mass: Belgium Great Britain Germany Denmark Portugal France Argentina	Pounds. 11,828,774 16,095,949 3,120,763 275,282 147,120 108,589 6,551,006	\$139,853 203,733 37,215 3,926 1,776 1,751 74,740
Total	38,127,483	462,994

#### RUSSIA-FINLAND.

#### IMPORTS (SPECIAL), CALENDAR YEAR 1906.

Imported from—	Quantity.	Value.
Wood and paper pulp, statuary composition, etc.: Germany. Netherlands. Russia. All other countries.	Pounds. 370,152 3,316 24 1,210	\$12,962 116 1 42
Total	374,702	13,121
Printing paper: Germany Belgium United Kingdom Russia All other countries	16,495 2,006 2,000 6,424 553	1,444 176 175 562 48
Total	27,478	2,408

#### RUSSIA—FINLAND—Continued.

#### EXPORTS (SPECIAL), CALENDAR YEAR 1906.

Exported to—	Quantity.	Value.
Wood pulp, mechanically produced, wet: Russia. Netherlands. Belgium.	. 1,763,336 1,321,689	\$31,785 7,718 5,785
United Kingdom. France.		16, 287 41, <b>400</b>
Total	. 23, 525, 534	102, 975
Wood pulp, mechanically produced, dry: Russia. Germany Netherlands Belgium United Kingdom. France Spain Mexico	10,535,421 2,507,598 7,336,097 1,627,986 22,629,875 6,875,170	170, 829 106, 065 26, 151 73, 856 16, 390 227, 826 69, 216 22, 195
Total	. 70,775,181	712, 528
Wood pulp, chemically produced, wet: Russia	. 273,920	6, 475
Wood pulp, chemically produced, dry: Russia. Denmark Germany Netheriands Belgium United Kingdom France Mexico.	. 165, 898 . 13, 372, 426 . 784, 316 . 1, 726, 440 . 9, 109, 418 . 1, 505, 757	48,369 3,921 316,090 18,539 40,807 215,317 35,591 13,549
Total	. 29, 283, 812	692, 173
Printing and drawing paper: Russia. Germany United Kingdom. All other countries.	. 1,292,634 132,251	2, 247, 784 39, 606 4, 059
Total	. 61, 137, 284	2, 291, 449

#### SERVIA.

#### IMPORTS (SPECIAL), CALENDAR YEAR 1906.

· Imported from—	Quantity.	Value.
Printing paper, of all colors, satin finished or not: Austria-Hungary Roumania	2	\$65,190 2
France	2,044	362
Total	2, 127, 042	65,555
Paper stock of wood, straw, and other vegetable materials: Germany	2	1

#### SPAIN.

### IMPORTS (GENERAL), CALENDAR YEAR 1906.

Imported from—	Quantity.	Value.
aper pulp, including paper cuttings and old paper:	Pounds.	
Germany	11,069,063	\$145,95
Austria-Hungary	812, 796	10, 71
Belgium	158, 404	2,08
Denmark	49,042	64
France.	5, 272, 189	69,519
United Kingdom.	401,859	5, 29
Netherlands	299, 339	3,94
Italy	22,046	29
Norway	32, 266, 037	425, 45
Russia	5,719,081	75, 41
Sweden	20, 053, 225	264, 42
Switzerland	658, 514	8,68
Total	76, 781, 595	1,012,43

#### EXPORTS (GENERAL), CALENDAR YEAR 1906.

Exported to	Quantity.	Value.
oll paper for printing or writing:	Pounds.	
Canary Islands	52, 359 750	\$2,84 4
Germany	22,765	1,23
Argentina	80,938	4, 39-
Belgium	274, 986	14,93
Bolivia	3,792	20
Colombia	28, 561	1,55
Costa Rica	965	5
Cuba	217,550	11,81
Chile	26, 427	1, 43
Ecuador	3,790	20
Philippine Islands	129, 216	7,01
France	367, 200	19,93
Guatemala	7,394	400
Netherlands	271,362	14, 73
Italy	584	3
Morocco.	639	34
Mexico	94, 326	5, 12
	10, 355	56
Portugal	176, 611	9,58
Porto Rico.	27,379   828	1, 48
Santo Domingo	304	ĩ
TurkeyUruguay	5, 465	297
Venezuela	628	3-
Total	1,805,204	98,01

#### SWEDEN.

IMPORTS (SPECIAL), CALENDAR YEAR 1906		
Imported from—	Quantity.	Value.
Wood mass, chemically prepared, dry: Norway	Pounds. 2,547,977 4,762	\$44,912 84
Germany Netherlands Belgium Great Britain	2,014,475 491,776 93,942 558	35,509 8,668 1,656
United States.  Total.	236,452 5,389,942	95,007
Wood mass, chemically prepared, wet: Norway Germany. Netherlands	113,151 2,800 461,114	997 24 4,064
Total	577,065	5,08
Wood mass, mechanically prepared, dry: Norway	143,705 220	1,27
Total	143,925	1,27
Wood mass, mechanically prepared, wet: Norway	1,749,615 21,380	70,188 857
Total	1,770,995	71,045
EXPORTS (SPECIAL), CALENDAR YEAR 1906.		
Exported to—	Quantity.	Value.

Exported to—	Quantity.	Value.
Wood mass, chemically prepared, dry:	Pounds.	
Norway	9, 452, 762	\$166,622
Russia	33, 069	583
Denmark		159, 933
Germany		794, 873
Netherlands		139, 908
Belgium.		532, 117
Great Britain		5, 761, 077
France		1, 262, 379
Spain		246, 368
Portugal		19, 722
		29, 402
Italy		29, 402
Austria.		1.382
British South Africa		
British East Indies		17,784
Japan		266, 901
Other Asia		1,382
United States		274,017
Mexico		46,017
Brazil	642,844	11, 331
Uruguay		1,982
Argentina	7, 260, 427	127, 978
Total	559, 498, 262	9, 862, 153
Wood mass, chemically prepared, wet:		
Norway		25, 223
Denmark	21,000,042	193, 886
Germany		391
Netherlands	225, 972	1,991
Belgium		14,754
Great Britain	25, 208, 111	222, 169
France		198
Spain		3,447
Total		460, 059
LUMI	**************************************	100, 009

#### Sweden-Continued.

### EXPORTS (SPECIAL), CALENDAR YEAR 1908—Continued.

Exported to—	Quantity.	Value.
Wood mass, mechanically prepared, dry:	Pounds.	
Norway	13, 025, 537	\$115,591
Germany.		240, 292
Netherlands		86,086
Belgium		24, 052
Great Britain		67.263
France	31,389,225	278, 553
Spain	11, 329, 805	100, 543
Portugal		48,797
Italy		14,795
Japan	224,869	1,996
United States		896
Mexico		499
Brazil		5, 961
Urugusy		2.859
		67, 285
Argentina	1,004,190	01,200
Total	118, 938, 230	1,055,478
Wood mass, mechanically prepared, wet:		
Norway	12,892,113	51,718
Denmark.		37,731
Netherlands	12, 252, 108	49, 151
Belgium		486
Great Britain	66, 502, 546	266, 782
France	00 000 010	331, 386
Spain		177
Argentina		126
Total	183, 855, 573	787,557

#### SWITZERLAND.

#### IMPORTS (SPECIAL), CALENDAR YEAR 1906.

Imported from—	Quantity.	Value.
ber material for the manufacture of paper, mechanically produced (wood mass, wood meal), wet or dry; also rag pulp: Germany. Austria-Hungary. France. Italy. Sweden.  Total.  ber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, unbleached: Germany. Austria-Hungary.	Pounds. 674,614 4,199,144 55,116 209,439 96,122	\$8, 268 51, 465 676 2, 567 1, 178
Total	5, 234, 435	64, 154
	22,046	53, 920 23, 064 4, 772 1, 291 425 20, 863
Fiber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, bleached: Germany Austria-Hungary Italy Netherlands Russia Sweden United States	44,533 22,708	77, 580 60, 238 4, 410 2, 750 1, 092 557 562
Total	6,004,730	147, 189

43,652

2, 425

Statement showing trade in wood pulp, cellulose, and other articles used in the manufacture of paper, and paper manufactures, etc.—Continued.

#### SWITZERLAND-Continued.

#### IMPORTS (SPECIAL), CALENDAR YEAR 1906—Continued.

Imported from—	Quantity.	Value.
Printing paper for newspapers, containing wood fiber, weighing 45 to 55 grams		<del></del>
per square meter:	Pounds.	
Germany	12,787 9,039	\$56
rrance	9,039	39
<u>Italy</u>	5,071	22
Belgium	220	. 1
Netherlands	2, 425	10
Great Britain	441	1
Total	29,983	1,31
ther printing, writing, and drawing paper, of one color:		
Germany	2, 404, 582	178,93
Austria-Hungary	397,934	29,61
France	264, 555	19,68
Italy	19,401 83,996	1, 44 6, 25
Belgium.	83,996	6,20
Netherlands	14,771 241,186	1,09
Sweden.		21, 11 39
United States.	5, 291 9, 700	84
United Diates.	9,700	<u> </u>
Total	3, 441, 416	259, 37
ther printing, writing, and drawing paper of more than one color.		
Germany	32,408	2,8
Austria-Hungary	3, 307	29
France	3, 527	30
Great Britain	6,614	5
Total	45, 856	4,0
Exported to—	Quantity.	
		Value.
Fiber material for the manufacture of paper, mechanically produced (wood		Value.
Fiber material for the manufacture of paper, mechanically produced (wood mass, wood meal), wet or dry; also rag pulp:	Pounds.	
mass, wood meal), wet or dry; also rag pulp: Germany	Pounds. 453, 491	\$27,9
mass, wood meal), wet or dry; also rag pulp: Germany France	Pounds. 453, 491 1, 479, 963	\$27,90 60,8
mass, wood meal), wet or dry; also rag pulp: Germany. France. Netherlands	Pounds. 453, 491 1, 479, 963 441	\$27,9 60,8
mass, wood meal), wet or dry; also rag pulp: Germany France	Pounds. 453, 491 1, 479, 963	\$27,9 60,8
mass, wood meal), wet or dry; also rag pulp: Germany. France. Netherlands.	Pounds. 453, 491 1, 479, 963 441	\$27,9 60,8 3,8
mass, wood meal), wet or dry; also rag pulp: Germany France Netherlands Great Britain Total	Pounds. 453, 491 1, 479, 963 441 67, 682	\$27,9 60,8 3,8
mass, wood meal), wet or dry; also rag pulp:  Germany France Netherlands Great Britain  Total  Fiber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, unbleached:	Pounds. 453, 491 1, 479, 963 441 67, 682 2, 001, 577	\$27,960,8 60,8 3,88
mass, wood meal), wet or dry; also rag pulp: Germany. France. Netherlands. Great Britain.  Total.  Fiber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, unbleached: Germany.	Pounds. 453, 491 1, 479, 963 441 67, 682 2, 001, 577	\$27, 99 60, 81 3, 88 92, 66
mass, wood meal), wet or dry; also rag pulp:  Germany France. Netherlands. Great Britain  Total  Fiber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, unbleached:  Germany France.	Pounds. 453, 491 1, 479, 963 441 67, 682 2, 001, 577	\$27, 96 60, 8 3, 8 92, 66
mass, wood meal), wet or dry; also rag pulp:  Germany. France.  Netheriands. Great Britain.  Total.  Total.  Total.  Total produced (cellulose, a straw mass, esparto mass, etc.), wet or dry, unbleached:  Germany. France.  Italy.	Pounds. 453, 491 1, 479, 963 441 67, 682 2,001,577 340,173 5,740,837 1, 402,360	\$27, 9 60, 8 3, 8 92, 66 7, 22 113, 6 28, 5
mass, wood meal), wet or dry; also rag pulp:  Germany. France. Netherlands. Great Britain.  Total.  Total.  Piber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, unbleached:  Germany. France. Italy.  Total.	Pounds. 453, 491 1, 479, 963 441 67, 682 2, 001, 577	\$27, 9 60, 8 3, 8 92, 6 7, 2 113, 6 28, 5
mass, wood meal), wet or dry; also rag pulp: Germany. France. Netherlands. Great Britain.  Total.  Piber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, unbleached: Germany. France. Italy.  Total.  Piber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, bleached:	Pounds. 453, 491 1, 479, 963 441 67, 682 2, 001, 577  340, 173 5, 740, 837 1, 402, 360 7, 483, 370	\$27, 9 60, 8 3, 8 92, 6 7, 2 113, 6 28, 5
mass, wood meal), wet or dry; also rag pulp:  Germany  France.  Netherlands.  Great Britain  Total  Fiber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, unbleached:  Germany  France.  Italy  Total  Fiber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, bleached:  Germany.	Pounds. 453, 491 1, 479, 963 441 67, 682 2,001, 577 340, 173 5,740, 837 1, 402, 360 7, 483, 370	\$27,9 60,8 3,8 92,6 7,2 113,6 28,5
mass, wood meal), wet or dry; also rag pulp: Germany. France. Netherlands. Great Britain.  Total  Piber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, unbleached: Germany. France. Italy.  Total  Fiber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, bleached: Germany. France.	Pounds. 453, 491 1, 479, 963 441 67, 682 2, 001, 577 340, 173 5, 740, 837 1, 402, 360 7, 483, 370	\$27,9 60,8 3,8 92,6 7,22 113,6 28,5 149,4
mass, wood meal), wet or dry; also rag pulp:  Germany. France. Netherlands. Great Britain.  Total.  Total.  Fiber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, unbleached: Germany. France. Italy.  Total.  Fiber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, bleached: Germany. France. Italy.	Pounds. 453, 491 1, 479, 963 471 67, 682 2,001,577 340,173 5,740,837 1,402,360 7,483,370 14,110 2,896,874 1,461,444	\$27,9 60,8 3,8 92,6 7,2 113,6 28,5 149,4 4 68,0
mass, wood meal), wet or dry; also rag pulp: Germany. France. Netherlands. Great Britain.  Total  Fiber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, unbleached: Germany. France. Italy.  Total  Fiber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, bleached: Germany. France. Italy. Great Britain.	Pounds. 453, 491 1, 479, 963 441 67, 682 2, 001, 577  340, 173 5, 740, 837 1, 402, 360 7, 483, 370  14, 110 2, 886, 874 1, 461, 444 44, 533	\$27,960,8 60,8 92,66 7,22,5 113,6 28,5 149,4 68,0 31,9 2,8
mass, wood meal), wet or dry; also rag pulp: Germany. France. Netherlands. Great Britain.  Total.  Piber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, unbleached: Germany. France. Italy.  Total.  Piber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, bleached: Germany. France. Italy. Great Britain. Total.	Pounds. 453, 491 1, 479, 963 471 67, 682 2,001,577 340,173 5,740,837 1,402,360 7,483,370 14,110 2,896,874 1,461,444	\$27,960,8 60,8 92,66 7,22,5 113,6 28,5 149,4 68,0 31,9 2,8
mass, wood meal), wet or dry; also rag pulp:  Germany. France. Netherlands. Great Britain.  Total.  Fiber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, unbleached: Germany. France. Italy.  Total.  Fiber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, bleached: Germany. France. Italy. Great Britain.  Total.  Printing paper for newspapers containing wood fiber, weighing 45 to 55 grams	Pounds. 453, 491 1, 479, 963 441 67, 682 2,001, 577 340, 173 5,740, 837 1, 402, 360 7, 483, 370  14, 110 2, 896, 874 1, 461, 444 44, 533 4, 416, 961	\$27,9 60,8 3,8 92,6 7,2 113,6 28,5 149,4
mass, wood meal), wet or dry; also rag pulp:  Germany.  France.  Netherlands.  Great Britain.  Total.  Fiber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, unbleached:  Germany.  France.  Italy.  Total.  Fiber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, bleached:  Germany.  France.  Italy.  Great Britain.  Total.  Printing paper for newspapers containing wood fiber, weighing 45 to 55 grams per square meter:  Germany.  Germany.	Pounds. 453, 491 1, 479, 963 441 67, 682 2,001, 577 340, 173 5,740, 837 1, 402, 360 7, 483, 370  14, 110 2, 896, 874 1, 461, 444 44, 533 4, 416, 961	\$27,9 60,8 3,8 92,6 7,2 113,6 28,5 149,4 68,0 31,8 2,8
mass, wood meal), wet or dry; also rag pulp:  Germany France. Netherlands. Great Britain  Total.  Fiber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, unbleached: Germany. France. Italy.  Total.  Fiber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, bleached: Germany. France. Italy.  Gerta Britain.  Total.  Printing paper for newspapers containing wood fiber, weighing 45 to 55 grams per square meter: Germany. Austria-Hungary	Pounds. 453, 491 1, 479, 963 441 67, 682 2,001, 577 340, 173 5,740, 837 1, 402, 360 7, 483, 370  14, 110 2, 896, 874 1, 461, 444 44, 533 4, 416, 961	\$27,9 60,8 3,8 92,6 7,2 113,6 28,5 149,4 68,0 31,8 2,8 103,1
mass, wood meal), wet or dry; also rag pulp:  Germany. France. Netherlands. Great Britain.  Total  Fiber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, unbleached: Germany. France. Italy.  Total.  Fiber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, bleached: Germany. France. Italy.  Great Britain.  Total.  Printing paper for newspapers containing wood fiber, weighing 45 to 55 grams per square meter: Germany. Austria-Hungary France.	Pounds. 453, 491 1, 479, 963 441 67, 682 2, 001, 577 340, 173 5, 740, 837 1, 402, 360 7, 483, 370  14, 110 2, 896, 874 1, 461, 444 44, 533 4, 416, 961 2, 425 2, 866 34, 392	\$27,9 60,8 3,8 92,6 7,22 113,6 22,5 149,4 68,0 31,8 2,8 103,1
mass, wood meal), wet or dry; also rag pulp:  Germany France. Netherlands Great Britain  Total  Fiber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, unbleached: Germany France. Italy  Total  Fiber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, bleached: Germany France. Italy Great Britain  Total  Printing paper for newspapers containing wood fiber, weighing 45 to 55 grams per square meter: Germany Austria-Hungary. France. Italy  Austria-Hungary. France.	Pounds. 453, 491 1, 479, 963 441 67, 682 2, 001, 577 340, 173 5, 740, 837 1, 402, 360 7, 483, 370  14, 110 2, 896, 874 1, 461, 444 44, 533 4, 416, 961  2, 425 2, 866 34, 392 34, 392	\$27,9 60,8 3,8 92,6 7,2 113,6 28,5 149,4 68,0 31,8 2,8 103,1
mass, wood meal), wet or dry; also rag pulp: Germany. France. Netherlands. Great Britain.  Total.  Piber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, unbleached: Germany. France. Italy.  Total.  Piber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, bleached: Germany. France. Italy.  Great Britain.  Total.  Printing paper for newspapers containing wood fiber, weighing 45 to 55 grams per square meter: Germany. Austria-Hungary. France. Italy. Spain.	Pounds. 453, 491 1, 479, 963 441 67, 682 2,001, 577 340, 173 5,740, 837 1, 402, 360 7, 483, 370  14, 110 2, 896, 874 1, 461, 444 44, 533 4, 416, 961 2, 425 2, 866 34, 392 441 1, 323	\$27,9 60,8 3,8 92,6 7,2 113,6 28,5 149,4 68,0 31,8 2,8 103,1
mass, wood meal), wet or dry; also rag pulp:  Germany France. Netherlands Great Britain  Total  Fiber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, unbleached: Germany France. Italy  Total  Fiber material for the manufacture of paper, chemically produced (cellulose, straw mass, esparto mass, etc.), wet or dry, bleached: Germany France. Italy Great Britain  Total  Printing paper for newspapers containing wood fiber, weighing 45 to 55 grams per square meter: Germany Austria-Hungary. France. Italy  Austria-Hungary. France.	Pounds. 453, 491 1, 479, 963 441 67, 682 2, 001, 577 340, 173 5, 740, 837 1, 402, 360 7, 483, 370  14, 110 2, 896, 874 1, 461, 444 44, 533 4, 416, 961  2, 425 2, 866 34, 392 34, 392	\$27,96 60,81 3,88 92,66 7,22,55 113,6- 28,55 149,44

#### SWITZERLAND-Continued.

#### EXPORTS (SPECIAL), CALENDAR YEAR 1906—Continued.

Exported to—	Quantity.	Value.
ther printing, writing, and drawing paper of one color:	Pounds.	
Germany	49,825	\$5, 832
Austria-Hungary		1,371
France		5, 567
Italy	30, 203	3, 252
Belgium	1,102	122
Great Britain		174
Russia		82
Spain		456
Roumania		146
Egypt		434
British East Indies	882	267
Philippine Islands		97
China	441 '	39
United States	2, 425	196
Total	, 194, 227	18, 035
ther printing, writing, and drawing paper of more than one color:		
Germany	1, 543	221
Austria-Hungary		80
France		4, 837
United States		33
Total	72, 532	5, 151

#### United Kingdom.

#### IMPORTS (GENERAL), CALENDAR YEAR 1906.

Imported from—	Quantity.	Value.
Esparto and other vegetable fiber (for making paper):	Pounds.	
Algeria	193,032,000	\$1,378,898
Spain	86,441,600	915,043
Tripoli	80,050,880	564,699
Tunis	61,830,720	435,036
Other countries	194,880	1, 192
Total	421,550,080	3,294,888
Pulp of wood, chemical, dry:	<del></del>	
Russia	26, 203, 520	485,866
Sweden		5, 245, 119
Norway	172,5%5,280	3,227,482
Germany	16,988,160	329, 287
Netherlands		115,964
Portugal	4,970,560	80, 224
Austria-Hungary.		84,735
United States	6,027,840	126,442
British possessions		279,620
Other countries	1,583,680	29,948
Total	539,053,760	10,004,687
Pulp of wood, chemical, wet:		
Sweden	16, 264, 640	144.341
Norway		178,021
Total	36,668,800	322,362
Pulp of wood, mechanical, dry:		
Russia	4,477,760	39.954
Sweden.	4,336,640	42, 173
Norway	6,121,920	57,834
Netherlands		24
Total	14,938,560	139.985

#### UNITED KINGDOM-Continued.

#### IMPORTS (GENERAL), CALENDAR YEAR 1905-Continued.

Imported from—	Quantity.	Value.
Pulp of wood, mechanical, wet:	Pounds.	
Russia		\$16,37
8weden		340,15
Norway		2,462,10
Canada		900,41
Other countries		78
Total	: 768,595,520	3,719,83
Paper, unprinted, on reels:		
Russia	. 919,744	27,30
Russia	74, 909, 184	1,884,46
Norway	68,067,888	1,762,59
Germany		229,74
Netherlands.		151.89
Belgium		39,46
France		51,26
Italy		37
Austria-Hungary		2.39
United States		1,219,35
Canada		595.22
Total	231,092,624	5,964,09
Paper, unprinted, not on reels: Russia	21, 899, 472	
		634, 38
8weden		3.051,19
Norway	103,932,528	2,820.40
Denmark		25.33
Germany		1.633, 26
Netherlands		2, 161, 15
Belgium		1,341,92
France		772.51
Italy		48, 40
Austria-Hungary	2, 297. 344	68,53
Japan		80, 17
United States.	. 13, 142, 864	600, 86
Canada	12,096,224	237, 87
Other British possessions		3, 21
Other countries	87,584	7,30
Total	. 390, 038, 096	13, 486, 57

#### EXPORTS (SPECIAL), CALENDAR YEAR 1906.

Exported to—	Quantity.	Value.
Paper, writing or printing, and envelopes:  Foreign countries—  Russia.  Sweden.  Denmark  Ger nany  Netherlands.  Belgium  France.  Portuguese East Africa.  Egypt.  China.  Japan.  United States.  Chile.  Brazii.  Uruguay.  Argentina.  Other foreign countries.	233, 232 576, 464 1, 025, 584 2, 290, 736 2, 590, 288 8, 823, 472 2, 011, 184 1, 033, 296 2, 008, 592 6, 588, 016 1, 440, 544 1, 574, 160 585, 648 337, 904	830, 63 25, 80 37, 82 95, 68 94, 48, 71 160, 56 89, 71 107, 37 140, 78 93, 05 42, 44 27, 34 151, 58 212, 25
Total	36,994,384	2, 422, 93

#### UNITED KINGDOM-Continued.

#### EXPORTS (SPECIAL), CALENDAR YEAR 1906—Continued.

Exported to—	1	Quantity.	Value.
per, writing or printing, and envelopes—Continued.			
British possessions—	1	Pounds.	
Cape of Good Hope		9,266,656	\$480,601
Natal		2,943,248	183,710
Bombay		9,622,032	464, 182
Madras		4,608,688	216, 185
Bengal		4, 363, 296	262,551
Burma		1,035,104	51,580
Straits Settlements.		1,399,552	85,918
Ceylon		1,823,360	112, 153
Hongkong		744, 464	40, 166
Western Australia		1,191,344	70,978
South Australia.		2,087,232	110,800
		9,150,288	480,294
Victoria New South Wales			
		10,535,280	546,055
Queensland		1,668,016	101,875
Tasmania		429, 184	19,700
New %ealand		8,976,576	515,757
Canada		5,964,000	360,505
British West Indies		569,408	44,903
Other British possessions		1,428,896	122,630
Total	<u> </u>	77,806,624	4,270,553
Grand total	=	114,801,008	6,693,48

#### BERMUDA.

#### IMPORTS (SPECIAL), CALENDAR YEAR 1905.

Imported from—	Quantity.	Value.
Paper and stationery: United Kingdom	Pounds.	
Paper and stationery: United Kingdom. Canada. United States.		5, 047 12, 648
Total.		24, 586

#### CANADA.

#### IMPORTS (SPECIAL), YEAR ENDING JUNE 30, 1906.

Imported from—	Quantity.	Value.
Wood pulp: Great Britain		*8 <u>7</u>
Germany. United States.	::: :::::::::::::::::::::::::::::::::::	50, <b>6</b> 7
Total		51,57
Printing paper of not greater value than 24 cents per pound, O. C.: United States	244, 638	5, 50
Printing paper not elsewhere specified: Great Britain Austria-Hungary		148, 73 13
China. France.	1,700 3,000	10 22
Germany Netherlands Japan	18, 024	5, 74 1, 19 25
United States.		359, 16
Total	8, 517, 857	515, &

#### CANADA—Continued.

#### EXPORTS (SPECIAL), YEAR ENDING JUNE 30, 1906.

Exported to—	Quantity.	Value.
Wood pulp: Great Britain.	Cords.	\$998,702
France.		1,258 46,337
Japan Mexico United States	l	5, 329 6, 896 2, 419, 628
Total		3, 478, 150
Wood, blocks and other, for pulp: United States	614, 286	2, 649, 106

#### NEWFOUNDLAND.

#### IMPORTS (GENERAL), YEAR ENDING JUNE 30, 1906.

Imported from—	Quantity.	Value.
Printing paper: United Kingdom. Canada.	Pounds.	\$2,450
United States. Other countries.		29, 924 19, 410
Total		51,784

# COSTA RICA.

#### IMPORTS (GENERAL), CALENDAR YEAR 1906.

Imported from—	Quantity.	Value.
Printing paper: Germany Belgium Spain United States	Pounds. 19, 284 5, 007 127, 643 46, 881	\$1,015 234 31,468 2,230
Italy Other countries	3, 239 13, 823	576 377
Total	215, 877	35, 900

#### SAN SALVADOR.

#### IMPORTS (SPECIAL), CALENDAR YEAR 1904.

Imported from	Quantity.	Value.
Paper and stationery:	Pounds.	
Germany	99, 129	\$9,905
Austria-Hungary	7,663	433
Belgium	54,765	3,017
China	57	11
Spain	9.052	1,234
United States	20,856	3,867
France	19.370	1,670 1,095
United Kingdom.	7,551	1,095
Italy	15,044	1, 109
Total	233, 487	22, 341

# MEXICO. / IMPORTS (GENERAL) YEAR ENDING JUNE 80, 1906.

1	Quantity.	Value.
aper paste of vegetable fibers in sheets, undyed, including old paper and pa-		
per cuttings:	Pounds.	
Germany	2, 434, 694	<b>\$</b> 56. 3
Austria-llungary	436, 345	11,2
Belgium	118,938	2, 4
Canada	1,363,796	10, 2
Spain	1,138	
United Kingdom	3, 885, 072	66, 4
France.	542	14.0
NorwayRussia	790,076	14,0
8weden.	684, 131 837, 087	14, 9 13, 4
Switzerland.	688, 343	15, 7
<u>_</u>		
Total.	11,240,162	205, 1
aper of all kinds, weighing not over 50 grams per square meter: Germany	1, 460, 021	64. 8
Austria-Hungary	1, 460, 021 147, 241	64, 8 7, 7
Belgium	18, 177	i, 2
China	944	1
Spain	784, 194	94, 9
United States.	1, 278, 357	67, 8
France	196,071	10, 2
United Kingdom	15, 538	2, 5
Guatemala.	4 227	
Netherlands	4,894	4
Japan	340, 410 339	19, 4
Norway.	741, 564	17, 1
Sweden	245,028	7, 1
Switzerland	70, 195	2,0
Total	5, 302, 980	295, 9
White paper containing over 40 per cent wood pulp and weighing more than 50 and not over 150 grams per square meter:		
Germany	15,703	7
Belgium	2	
Canada	69, 961	1,8
Spain	87, 498	3, 8
United States	568,350	18,0
France.	6,744	2
United Kingdom	23, 168	9
Norway	1,316 7,175	]
Aut way	7,175	
Total	779, 917	25, 9
Thite paper containing not to exceed 40 per cent wood pulp and weighing over	1	
Thite paper containing not to exceed 40 per cent wood pulp and weighing over 50 and not more than 150 grams per square meter:	224, 461	14.5
Thite paper containing not to exceed 40 per cent wood pulp and weighing over 50 and not more than 150 grams per square meter:  Germany	224, 461 22, 112	
Thite paper containing not to exceed 40 per cent wood pulp and weighing over 50 and not more than 150 grams per square meter:  Germany	22, 112	14,3 1,8
Thite paper containing not to exceed 40 per cent wood pulp and weighing over 50 and not more than 150 grams per square meter:  Germany.  Belgium.  Spain.	22, 112 66	1,8
Thite paper containing not to exceed 40 per cent wood pulp and weighing over 50 and not more than 150 grams per square meter:  Germany.  Belgium.  Spain.  United States.  France.	22, 112 66 417, 681	1, 8
hite paper containing not to exceed 40 per cent wood pulp and weighing over 50 and not more than 150 grams per square meter: Germany. Belgium. Spain. United States. France. United Kingdom.	22, 112 66 417, 681 12, 648	1, 1 40, 1 1, 1
Thite paper containing not to exceed 40 per cent wood pulp and weighing over 50 and not more than 150 grams per square meter:  Germany.  Belgium.  Spain.  United States.  France.	22, 112 66 417, 681	1, 1 40, 1
Thite paper containing not to exceed 40 per cent wood pulp and weighing over 50 and not more than 150 grams per square meter:  Germany.  Belgium.  Spain.  United States.  France. United Kingdom.	22, 112 66 417, 681 12, 648 7, 436	1,1
Thite paper containing not to exceed 40 per cent wood pulp and weighing over 50 and not more than 150 grams per square meter:  Germany  Belgium  Spain  United States  France  United Kingdom  Italy  Total  Olored paper, dyed in the paste, weighing over 50 and not more than 150 grams	22, 112 66 417, 681 12, 648 7, 436 1, 068	1, 8 40, 8 1, 8
Thite paper containing not to exceed 40 per cent wood pulp and weighing over 50 and not more than 150 grams per square meter:  Germany	22, 112 66 417, 681 12, 648 7, 436 1, 068 685, 472	1, 40, 8 1, 8 1, 8 59, 3
Thite paper containing not to exceed 40 per cent wood pulp and weighing over 50 and not more than 150 grams per square meter:  Germany  Belgium  Spain United States France United Kingdom Italy  Total  Olored paper, dyed in the paste, weighing over 50 and not more than 150 grams per square meter:  Germany	22, 112 66 417, 681 12, 648 7, 436 1, 068 685, 472	1,40,1
Thite paper containing not to exceed 40 per cent wood pulp and weighing over 50 and not more than 150 grams per square meter:  Germany.  Belgium.  Spain.  United States.  France.  United Kingdom.  Italy.  Total.  olored paper, dyed in the paste, weighing over 50 and not more than 150 grams per square meter:  Germany.  Austria-Hungary.	22, 112 66 417, 681 12, 648 7, 436 1, 068 685, 472	1,1 40,3 1,1 59,1
Thite paper containing not to exceed 40 per cent wood pulp and weighing over 50 and not more than 150 grams per square meter:  Germany.  Belgium.  Spain  United States.  France.  United Kingdom.  Italy.  Total.  Olored paper, dyed in the paste, weighing over 50 and not more than 150 grams per square meter:  Germany.  Austris-Hungary.  Belgium.	22, 112 66 417, 681 12, 648 7, 436 1, 068 685, 472 44, 562 1, 279 18, 285	1,1 40,1 1,1 59,1
Thite paper containing not to exceed 40 per cent wood pulp and weighing over 50 and not more than 150 grams per square meter:  Germany.  Belgium.  Spain.  United States.  France.  United Kingdom.  Italy.  Total.  colored paper, dyed in the paste, weighing over 50 and not more than 150 grams per square meter:  Germany.  Austria-Hungary.  Belgium.	22, 112 66 417, 681 12, 648 7, 436 1, 068 685, 472 44, 562 1, 279 18, 285 9, 963	1,1 40,1 1,1 59,1
Thite paper containing not to exceed 40 per cent wood pulp and weighing over 50 and not more than 150 grams per square meter:  Germany.  Belgium.  Spain.  United States.  France.  United Kingdom.  Italy.  Total.  olored paper, dyed in the paste, weighing over 50 and not more than 150 grams per square meter:  Germany.  Austria-Hungary.  Belgium.  Spain.  United States.	22, 112 66 417, 681 12, 648 7, 436 1, 068 685, 472 44, 562 1, 279 18, 285 9, 963 113, 443	1,40,1 1,1 59,:
Thite paper containing not to exceed 40 per cent wood pulp and weighing over 50 and not more than 150 grams per square meter:  Germany.  Belgium.  Spain.  United States.  France.  United Kingdom.  Italy.  Total.  colored paper, dyed in the paste, weighing over 50 and not more than 150 grams per square meter:  Germany.  Austria-Hungary.  Belgium.  Spain.  United States.  France.	22, 112 66 417, 681 12, 648 7, 436 1, 068 685, 472 44, 562 1, 279 18, 285 9, 963 113, 433 18, 278	1,1 40,1 1,1 59,1
Thite paper containing not to exceed 40 per cent wood pulp and weighing over 50 and not more than 150 grams per square meter:  Germany	22, 112 66 417, 681 12, 648 7, 436 1, 068 685, 472 44, 562 1, 279 18, 225 9, 963 113, 453 18, 278 181	1,40,1 1,1 59,:
Thite paper containing not to exceed 40 per cent wood pulp and weighing over 50 and not more than 150 grams per square meter:  Germany.  Belgium.  Spain.  United States.  France.  United Kingdom.  Italy.  Total.  blored paper, dyed in the paste, weighing over 50 and not more than 150 grams per square meter:  Germany.  Austria-Hungary.  Belgium.  Spain.  United States.  France.	22, 112 66 417, 681 12, 648 7, 436 1, 068 685, 472 44, 562 1, 279 18, 285 9, 963 113, 433 18, 278	1,40,1 1,1 59,:

#### MEXICO-Continued.

#### IMPORTS (GENERAL), YEAR ENDING JUNE 30, 1906—Continued.

Imported to—	Quantity.	Value.
Paper, uncolored, weighing over 50 and not more than 150 grams per square meter:  Germany. Austria-Hungary Belgium Cuba. China. Spain United States France. United Kingdom Italy. Norway. Russia.	Pounds. 855, 965 226, 953 18, 527 285 408 120, 296 610, 156 120, 936 9, 297 8, 571 500, 742 142, 783	\$21, 02 4, 56 16 1 3 7, 16 23, 77 2, 38 49 43 10, 86 2, 62
Sweden	520, 075 3, 134, 974	14,93

#### Note.—No exports separately stated.

#### BRITISH WEST INDIES-BARBADOS.

#### IMPORTS (SPECIAL), CALENDAR YEAR 1905.

Imported from—	Quantity.	Value.
Paper and stationery: United Kingdom. British possessions	Pounds.	\$18,050
British possessions United States		\$18,050 1,017 12,444
Total		31,511

#### BRITISH WEST INDIES-JAMAICA.

#### IMPORTS (SPECIAL), YEAR ENDING MARCH 31, 1906.

Imported from—	Quantity.	Value.
Printing paper: United Kingdom	Pounds.	\$4,794
Printing paper: United Kingdom. Canada. United States.		97 17,544
Total		22, 435

# BRITISH WEST INDIES-LEEWARD ISLANDS.

#### IMPORTS (SPECIAL), CALENDAR YEAR 1905.

Imported from—	Quantity.	Value.
Paper and stationery: United Kingdom	Pounds.	\$10.779
British possessions. United States Other foreign countries.		\$10,779 1,285 5,893 200
Total.		

# BRITISH WEST INDIES-TRINIDAD AND TOBAGO.

#### IMPORTS (GENERAL), YEAR ENDING MARCH 31, 1906.

Imported from—	Quantity.	Value.
aper and stationery: United Kingdom British North America. France	Pounds.	202 87
		2,97 23,44
United StatesOther countries		10,04 1,62
Total		100, 90

#### BRITISH WEST INDIES-ST. VINCENT.

#### IMPORTS (SPECIAL), YEAR ENDING MARCH 31, 1906.

Imported from—	Quantity.	Value.
Paper and stationery: United Kingdom British West Indies	Pounds.	91 248
British West Indies. United States.		\$1,348 1,066 10
Total		2, 414

#### ARGENTINA.

#### IMPORTS (SPECIAL), CALENDAR YEAR 1906.

Imported from—	Quantity.	Value.
ood pulp for manufacture of paper:	Pounds.	
Germany	. 17,112,737	<b>\$224,</b> 71
Austria-Hungary	. 565, 812	7, 43
United States	964, 075	12,65
Netherlands		9, 51
United Kingdom		2, 49
Russia	. 6, 551, 119	86,02
Sweden and Norway	4,777,503	62, 73
Total	. 30, 886, 409	406, 58
rinting paper:		
Germany	. 9,749,585	246, 26
Belgium.		11, 48
Canada		17, 20
United States		191,76
Italy		3, 20
Netherlands		7,95
United Kingdom	53, 861	1, 41
Sweden and Norway	. 88,538	2, 32
Total	. 18, 341, 224	481,69

#### BRAZIL.

#### IMPORTS (GENERAL), CALENDAR YEAR 1906.

Imported from—	Quantity.	Value.
ood pulp for the manufacture of paper:	Pounds.	
Germany		\$4,063
Great Britain		620
Austria-Hungary		8, 181
Sweden	2.927.189	63, 587
Russia	224, 719	8,078
All other countries	257, 465	3, 860
Total	4,054,187	83, 880
rinting paper:		
Germany	9,653,203 i	374,406
France	742,853	36,047
Great Britain	431,962	26,184
United States	1,153,661	35,747
Italy		19, 271
Portugal	375	69
Belgium		160, 925
Austria-Hungary	548,204	24, 453
Argentina	5,150	297
Switzerland	22,663	COS
Netherlands	139,322	5, 440
Sweden	1.783.402	53, 075
Russia		4,753
Norway	7.166.321	239, 881
Canada	6,762	180
Total	25,556,241	981,388

#### (No exports separately stated.)

#### CHILE.

#### IMPORTS (SPECIAL), CALENDAR YEAR 1906.

Imported from—	Quantity.	Value.
Printing paper:	Pounds.	
Argentina	1,499	292
Great Britain	258,026	12.816
Germany	1,724,923	\$92 12,816 85,637
France	16,182	804
Belgium	8,113	403
Italy	47,090	2, 339
Spain	7,738	384
United States	1,999,264	99, 268
Total	4,062,835	201,740
Paper pulp:		
Germany	890, 989	11,765

#### BRITISH GUIANA.

#### IMPORTS (SPECIAL), YEAR ENDING MARCH 31, 1906.

Imported from—	Quantity.	Value.
Paper, including manufactures: United Kingdom.	Pounds.	\$29.011
British possessions Other foreign countries.		\$29,911 1,688 4,081
Total		35,630

#### PERU.

#### IMPORTS (SPECIAL), CALENDAR YEAR 1905.

Imported from—	Quantity.	Value.
rinting paper:	Pounds.	-
Germany Belgium	52.792	\$39,268 2,331
Chile. United States.	24.030	2,331 1,061 80,614
France		180
United Kingdom Italy	2,154 7,304	92 321
Total	ļ	123, 867

# Note.-No exports.

#### URUGUAY.

#### IMPORTS (SPECIAL), CALENDAR YEAR 1903.

· ·	Imported from—	Quantity.	Value.
Argentina			\$133, 227 4, 081 28, 919 23 40, 047 1, 222 36, 279 21, 523
Total	•••••	4,040,627	265, 321

#### BRITISH INDIA.

# IMPORTS (GENERAL), YEAR ENDING MARCH 31, 1906.

Imported from—	Quantity.	Value.
Printing paper: United Kingdom. Austris-Hungary Belgium Germany Norway Sweden Other countries	777,616 4,155,648 598,984 483,504	\$390, 858 103, 593 28, 737 133, 605 18, 239 12, 570 4, 248
Total	17,558,352	691,841

#### STRAITS SETTLEMENTS.

#### IMPORTS (GENERAL), CALENDAR YEAR 1905.

Imported from—	Quantity.	Value.
per and paper ware: United Kingdom	Pounds.	\$139,1
Hongkong		321,
Other British possessions	·····	19,
Beigium		20, 206,
China. United States.		128, 47,
British IndiaOther foreign countries	•••••	1, 16,
Total		904.

#### STRAITS SETTLEMENTS-Continued.

#### EXPORTS (GENERAL), CALENDAR YEAR 1905.

Exported to—	Quantity.	Valu
aper and paper ware:	Pounds.	_
Hongkong		
British North Borneo		
Sarawak		13
Federated Malay States		12
Other British possessions		
Dutch possessions.		12
Italy.		
Siam		14
Malay Peninsula (native)		î
French possessions		- 1
Philippine Islands		
Other foreign countries		
Total		327
A Violation and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec		U.S.

#### CEYLON.

#### IMPORTS (SPECIAL), CALENDAR YEAR 1904.

	<del>,</del>	
Imported from—	Quantity.	Value.
Printing paper: United Kingdom British India Austria-Hungary Belgium France Germany Netherlands. United States	Reams. 31, 289 556 2, 938 915 50 10, 401 292 836	\$47, 568 553 2, 925 847 22 10, 132 148 362
Total.	47,277	62, 557

#### SIAM.

#### IMPORTS (GENERAL), CALENDAR YEAR 1906.

Imported from	Quantity.	Value.
iting and printing paper: United Kingdom Germany	Pounds. 177, 630 46, 823	\$52, 13,
Austria-Hungary Straits Settlements. Italy	28, 207 14, 114 8, 553	8, 4, 2,
Belgium Sweden India	7,611 4,222 3,149	1,
Hongkong. Norway Spain	1,199 1,569 906	
Switzerland. China.	754 100 191	İ
United States	295,088	86.

#### NEW ZEALAND.

#### IMPORTS (GENERAL), CALENDAR YEAR 1906.

Imported from—	Quantity.	Value.
nting paper:	Pounds.	
United Kingdom	6,982,080	\$339, 13
		2,91
	27,900	
New South Wales	624, 176	19,53
Canada	. 5,517,904	157,89
British Columbia	. 203, 504	5,61
Spain	. 11,424	30
Austria	16,688	62
Germany	344, 288	11.58
Norway	173, 152	5,71
Sweden	116.144	3.90
Denmark	1.792	7:
Politisian Dalaisan	1,792	
Belgium	13,440	80
United States	3, 500, 560	99,06
Total	. 17, 553, 088	647.28

#### EXPORTS (GENERAL), CALENDAR YEAR 1906.

Exported to—	Quantity.	Value.
Printing paper: New South Wales. Fij Islands. South Sea Islands.	Pounds. 16,768 1,120 1,120	\$1,002 88 29
Total	29,008	1,119

#### PHILIPPINE ISLANDS.

#### IMPORTS (GENERAL), CALENDAR YEAR 1907.

Imported from—	Quantity.	Value.
inting paper:	Pounds.	
United States	1,709,908	\$52,668
United Kingdom	149,210	5,929
Germany	748, 336	22,878
France		134
Spain		6,783
Ifaly	5.902	421
Austria-Hungary	181, 445	5, 650
Belgium		462
Denmark	15.977	542
Switzerland	20, 121	619
China		418
Hongkong	5,779	245
Japan		717
Total	2,995,032	97, 466

#### AUSTRALIA.

#### IMPORTS (SPECIAL), CALENDAR YEAR 1906.

Imported from—	Quantity.	Value.
inting paper (uncoated): United Kingdom	Pounds.	\$907,0
Canada		77,1
Hongkong New Zealand		1,2
Austria		2,3
BelgiumFrance		25,
Germany		266,
Netherlands		1.
South Sea Islands.		
Sweden		1,0
United States		846,
Total		2, 129,

#### EXPORTS (GENERAL), CALENDAR YEAR 1906.

Exported to—	Quantity.	Value.
Printing paper (uncoated): Fiji Islands.	Pounds.	<b>2</b> 671
New Zealand		3,898
Norfolk Islands.  Marshall Islands.		78 19
New Caledonia		399
New Hebrides South Sea Islands		234
Total		5, 299

# BRITISH SOUTH AFRICA.

#### IMPORTS, CALENDAR YEAR 1907.

Imported from—	Quantity.	Value.		
ood pulp and wood wool: United Kingdom. Belgium.	Pounds.	\$4,6 1,5		
Germany		3,6 4,0		
Norway Sweden Other countries		1,1 3,9		
Total		18,8		
inting paper: United Kingdom. Dominion of Canada.		396, 9 92, 7		
Austria. Belgium		2,7 7,2		
France. Germany. Netherlands.		2,2 29,9 1,4		
Italy		3,1		
Russia Sweden Switzerland		8,8		
United States		3,7		
Total		549,		

#### CAPE OF GOOD HOPE.

#### IMPORTS (SPECIAL), CALENDAR YEAR 1905.

Imported from—	Quantity.	Value.
Printing paper: United Kingdom	Pounds.	\$331, 452
British possessions. Germany United States		2, 229 39, 292 10, 103
Other foreign countries		2,862 385,938

#### CANARY ISLANDS.

### IMPORTS (GENERAL), CALENDAR YEAR 1906.

Imported from—	Quantity.	Value.
Paper in rolls, all sorts, weighing not over 20 grams per square meter:  Spain Germany Belgium France Italy	Pounds. 8, 492 22, 957 1, 102 176 217	\$1,25 3,39 16 2
Total	32,944	4,87
Paper in rolls, all sorts, weighing 21 to 40 grams per square meter: Spain Germany France United Kindgom Italy Norway.  Total	32, 344 20, 243 505 2, 359 377 10, 260	2,877 1,79 4 208 33 907 5,863
Paper in rolls, all sorts, weighing 41 to 50 grams per square meter:  Spain Germany Belgium United Kingdom Norway Total	13, 261 16, 698 2, 727 9, 290 11, 072	728 900 1.4 50- 600 2,879
Paper in rolls, all sorts, weighing 51 to 100 grams per square meter:  Spain Germany Belgium France. United Kingdom. Portugal.	10, 399 2, 855 992 1, 014 57 82	915 255 86 90
Total.	15, 399	1,36

#### TUNIS.

#### IMPORTS (GENERAL), CALENDAR YEAR 1905.

Imported from—	Quantity.	Value.
rinting paper:	Pounds.	
France.	885, 193 1, 989	\$28,00 12
Algeria. United Kingdom	234	- 1
Austria-Hungary Belgium	13, 426 25, 968	30 60
ItalyGermany	24, 328 3, 355	1,28 10
Total	954, 493	30, 49

#### EXPORTS (GENERAL), CALENDAR YEAR 1905.

	Exported to—	Quantity.	Value.
Cellulose: France	,	Pounds. 57,600	\$1,183

#### EGYPT.

#### IMPORTS (SPECIAL), CALENDAR YEAR 1907.

Imported from	Quantity.	Value.
inting and writing paper: United Kingdom	Pounds.	\$130.7
British possessions in Far East		<b>4</b> 130,
Germany		88.1
America		/
Austria-Hungary		184,
Belgium		4,
France and Algeria		57,
Greece		•
ItalyTurkey	;	43,
Other countries.		36,
Total	<u> </u>	547.

NOTE.—No quantities stated.



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		·	·



# PULP AND PAPER INVESTIGATION HEARINGS

HD1821

# **NOVEMBER 19, 20, 1908**

# SELECT COMMITTEE OF THE HOUSE OF REPRESENTATIVES

JAMES R. MANN, Illinois, Chairman

James M. Miller, Kansas .

HENRY T. BANNON, Ohio

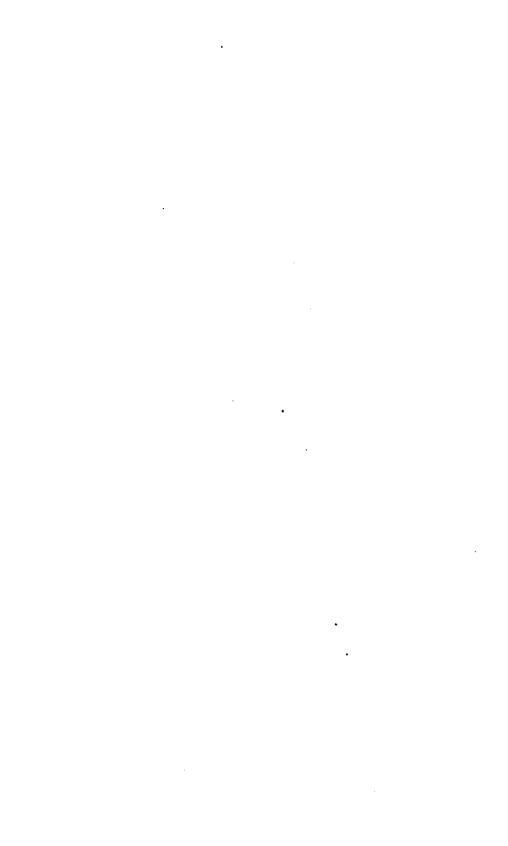
WILLIAM H. STAFFORD, Wisconsin

THETUS W. SIMS, Tennessee

WILLIAM H. RYAN, New York

NO. 34

WASHINGTON
GOVERNMENT PRINTING OFFICE.
1908



# WOOD PULP, PRINT PAPER, ETC.

SELECT COMMITTEE ON PULP AND PAPER INVESTIGATION, ROOM 1350 FIRST NATIONAL BANK BUILDING, Chicago, Ill., November 19, 1908.

The committee was called to order at 2 p. m., Hon. James R. Mann presiding.

# STATEMENT OF MR. JAMES M. ABELL, MANAGER OF CITY SALES, J. W. BUTLER PAPER COMPANY, CHICAGO.

(The witness was duly sworn by the chairman.)

The CHAIRMAN. Will you give us your full name?

Mr. Abell. James M. Abell.

The CHAIRMAN. And you are connected with what company?

Mr. ABELL. J. W. Butler Paper Company.

The CHAIRMAN. What position do you occupy there?

Mr. Abell. I am the manager of the city sales.

The CHAIRMAN. How long has the J. W. Butler Paper Company been in existence?

Mr. ABELL. Since 1844, if you take the different style of names of the company. As the J. W. Butler Paper Company since 1876, I think.

The CHAIRMAN. But it has been a continuous organization under different names since 1844?

Mr. ABELL. Yes, sir.

The CHAIRMAN. Is the J. W. Butler Paper Company one of the largest paper concerns or paper-handling concerns in Chicago?

Mr. ABELL. One of the largest paper jobbing houses in Chicago.

The CHAIRMAN. In the country, I suppose?

Mr. ABELL. And in the country.

The CHAIRMAN. Can you furnish to us statement as to prices at which different kinds or grades of papers have been sold for a series of years back?

Mr. Abell. I can, based upon our prices taken from our catalogues

covering the period between the years 1879 and 1908.

The CHAIRMAN. Those prices would be fairly accurate as to the

prices at which paper actually sold?

Mr. ABELL. They would be fairly accurate as the prices at which the paper was sold for in a general way out of stock. They would not be the carload price of paper sold direct from the mill.

The CHAIRMAN. But they would be relatively fairly accurate as to

these lots sold out of stock?

Mr. Abell. Very accurate for lots sold from stock.

The CHAIRMAN. And would show, I suppose, fairly the trend of prices in all places of the paper trade?

Mr. ABELL. It would show the trend of prices relatively.

The CHAIRMAN. Your prices of paper sold out of stock would ordinarily be a little higher than carload lots sold at the mill?

Mr. ABELL. Yes.

The CHARMAN. But as the carload lots f. o. b. mills go up and down through a series of years the smaller lots sold out of stock would go up and down?

Mr. Abell. Yes, sir.
The Charman. You have prepared a list at my request?

Mr. ABELL. I have a list, which I prepared at your request, of print paper of the standard grade of S. and S. C. book paper and our St. Charles fine writing paper. Your request was to cover print, one grade of book, and one grade of writing paper. This I have done.

The CHARMAN. The print paper referred to as standard grade is

what?

Mr. Abell. Is the ordinary news-print paper.

The CHAIRMAN. Now used?

Mr. ABELL. Yes; used by most newspapers. The Charman. What is the S. and S. C. book?

Mr. ABELL. It is the cheapest grade of what is called a free sheet, or in other words, free from ground wood.

The CHAIRMAN. Not supposed to have any ground wood in it?

Mr. ABELL. No ground wood in this particular sheet.

The CHAIRMAN. As a matter of fact, doesn't it have any ground wood in it?

Mr. Abell. Not traceable.

The CHAIRMAN. What does that stand for, S. and S. C.? Mr. Abell. Sized and super-calendered. The relative price between this paper and the ground wood sheet is only 10 cents a hundredweight, so it would give you a line on the ground wood super.

The CHAIRMAN. Is this supposed to be mostly sulphite or soda

fiber, or does it have some rag in it?

Mr. ABELL. Sulphite or soda principally, a little rag, but usually either sulphite or soda process.

The CHAIRMAN. The St. Charles writing paper, what is the grade

of that?

Mr. Abell. That is known as a fine writing. It sells at the present time at about 8 cents a pound. Fine writing paper.

The CHAIRMAN. That is mostly rag and some fiber?

Mr. ABELL. It is mostly rag; in fact, all rag except the chemicals. No sulphite in this, an all rag paper. And these writings are usually

designated as fine and superfines.

The CHAIRMAN. These prices run for news-print paper from 71 cents a pound in 1879, to 2.75 cents a pound in 1908, the lowest price having been reached in 1897 at 2 cents a pound. You say these figures were taken from your price lists?

Mr. ABELL. From our net price list. We run what we call a net

price list, which is not for ordinary quantities.

The CHAIRMAN. That is delivered where?

Mr. Abell. F. o. b. Chicago.

The CHAIRMAN. It is delivered f. o. b. Chicago?

Mr. ABELL. Yes, sir. Delivered to any printing house in Chicago, or delivered f. o. b. the cars for country shipment at that price.

The CHAIRMAN. Well, according to this, this writing paper has

also gone down in price.

Mr. Abell. Those prices have fluctuated about the same relative

way as the print have, writing and book paper.

The CHAIRMAN. We have been led to suppose at different times that the decrease in the cost of news-print paper was owing to the introduction of very cheap process of making ground wood, but you run down on St. Charles writing paper from 15 cents a ton in 1879 to 8 cents a ton in 1908, with the lowest price 7 cents a ton in 1899.

Mr. ABELL. That is largely due to improvement in machinery. There was a time when the width of the web of these machines making writing paper was very much narrower than it is to-day. They can produce much more tonnage for the same amount of expense. This largely accounts for the decrease in the price of these writings.

The Chairman. I see you have missed here the years 1880, 1881, and 1882. You are not able to give us the prices for these years?

Mr. ABELL. That is owing to the fact that we can not find our price lists or we did not issue any during these years. There were some years during this period where prices did not fluctuate much, and we did not get up a price list. I think the absence of prices for those dates is largely accounted for by that fact.

The CHAIRMAN. There are a number of years missing in this list you handed me. That is the case of all those missing; you have been unable to obtain them either because you have not issued a

price list or can not find them?

Mr. ABELL, Mislaid the price list or did not issue one and I think

the latter would cover. I do not think I mislaid any.

The CHAIRMAN. From 1879 to 1883 are missing, 1883, 1884, and 1885 are here, 1886 is missing, 1887 is here, and 1888, 1889, 1890, and 1891 and 1892 are missing; 1893 is here and 1894 and 1895 are missing; then comes 1896, 1897, 1898. and 1899 and every year down to date.

Mr. ABELL. For the last ten years we have issued a price list nearly

every three months. Changed our rule.

The CHAIRMAN. This former method where you only issued a price list may be once in several years; of course, you would not stick to that price list?

Mr. ABELL. That would be owing to the changing conditions in

the market; yes, sir.

The CHAIRMAN. There has been quite a controversy going on, and is yet, apparently, as to the market price of news print paper. Mr. Herman Ridder has just issued a circular letter for publication, copy of which came to me a few days ago, bitterly attacking the chief of the Census Bureau for some statement he made, based on the Paper Trade Journal prices, and while I am not sure just what the effect or value it has on the question, we have been trying for some time to ascertain what the real prices of paper were. In your judgment, this would actually state the actual price the paper sold out of the store here?

Mr. ABELL. On these dates those are the prices at which we sold the goods, to the best of my knowledge and belief, during the years stated in the ordinary way out of the store. The CHAIRMAN. Of course, which does not mean there might not be some variation?

Mr. ABELL. Some variation one way or the other.

The CHAIRMAN. Mr. Ridder in his statement recently complains, I think, that the Paper Trade Journal makes a difference of \$10 a ton between the market price of news-print paper in Philadelphia and New York, which, of course, could not possibly be true.

Mr. Abell. Not 50 cents a hundredweight.

The CHAIRMAN. I don't remember exactly what his statement is. Is any particular company making this St. Charles writing paper?

Mr. Abell. Yes, sir.

The CHAIRMAN. Made only by one?

Mr. Abell. At the present time it is being made by one company. During that period of years it has been made at the different mills. I do not know whether it was a standard quality of paper, or representing a particular firm making it. It is a standard quality of paper with us and at the present time represents the name of one manufacturer.

The Chairman. Has your company been interested in any way in the agreement or combination of paper manufacturers to affect either the output or control the sale of paper through your house?

Mr. Abell. No. sir.

The CHAIRMAN. It has been charged that sometimes when a prospective purchaser would communicate with a paper mill, or with one paper jobbing house, that his request would be turned over to somebody else on the plea that the company addressed could not furnish him paper and it must be furnished by some other company who had the right to have his business. Do you know anything about it?

Mr. Abell. I don't know anything about that. I think possibly some such conditions might have arisen in some mills.

The CHAIRMAN. Has your company been a party to any such

arrangement as that?

Mr. ABELL. It has not. Occasionally there are conditions where we are given certain watermarked paper of a mill, the mill making that special watermark for us where a mill might refer a customer back, saying that we were the only jobber handling that particular watermark.

The CHAIRMAN. That would not apply to news print-paper?

Mr. ABELL. No; that is not watermarked at all.

Mr. STAFFORD. From what mills do you receive your supply of

print paper?

Mr. Abell. We get some of our print paper from the St. Regis Paper Company, some from the Philadelphia Paper Company, some from the Sheboygan Paper Company, and some others—can't think of their names right now. Occasionally some one of our customers will specify he wants a certain mill's make and in that case we fill his order according to his preference.

Mr. Stafford. What metropolitan papers does your company

furnish with a supply of news-print paper?

Mr. ABELL. I could not give you the list of those, because they would be confined to the country business. If it was city I could tell you, but I can say that we have none of the large dailies in the city of Chicago.

Mr. Stafford. Does your house furnish a supply of paper to any of the dailies in cities the size of Milwaukee; or, name the principal

newspaper in the largest city that you do supply paper to.

Mr. ABELL. We furnish paper for some of the papers in cities the size of Milwaukee, but I am not prepared to give you a list of those papers now. If you wish it I can get it for you. That is not in my department.

Mr. STAFFORD. What is the practice in the trade of obtaining contracts for the supply of news-print paper to various newspapers in

the different cities in the country?

Mr. ABELL. We are usually asked to bid upon specifications, and

we usually make those quotations in writing.

Mr. Stafford. Is your company asked by the Chicago dailies or by the Milwaukee dailies to quote them prices for their supply of

Mr. ABELL. The Chicago dailies have not asked us for any quota-

tions for quite a number of years.

Mr. Stafford. My question is directed to ascertain the method of the newspapers obtaining their supply of paper, whether through jobbing houses, such as you represent, or whether from the mills.

Mr. Abell. The largest papers, I think, get their quotations from

Mr. Stafford. In some lines of manufacture the manufacturers refuse to sell directly to the consumers and only through jobbing houses ?

Mr. ABELL. Yes, sir.

Mr. Stafford. What is the practice so far as news-print paper is concerned in supplying the largest dailies in the different cities of the

country, so far as you know?

Mr. Abell. I should say that the largest dailies in the large cities buy the majority of their paper direct from the mills. You might go further and say all the Chicago dailies buy, nearly all buy, from the International.

Mr. Stafford. Have you any acquaintance with the practice followed by the news-print paper manufacturers in obtaining contracts

for the supply of print paper of newspapers?

Mr. ABELL. No; I have not.

Mr. Stafford. Are you acquainted with the prices of news-print paper by rolls furnished in carload lots during the past year and in the various months?

Mr. Abell. I do not know as I could follow the fluctuation monthly. Mr. Stafford. Has there been any fluctuation in the past six months in the price of print paper in large quantities?

Mr. Abell. Yes, sir; it is higher now than six months ago.

Mr. Stafford. What is the quotation to-day?

Mr. Abell. Somewhere around 21.

Mr. Stafford. How long has it been at that figure? When did the last rise take place?

Mr. Abell. I could not give you the date. I should say within the

last three months.

Mr. Stafford. How much of a rise took place then?

Mr. Abell. I could not tell you that exactly. Mr. Stafford. Give it as near as you can.

Mr. Abell. I should say in the neighborhood of one-fourth cent a pound.

Mr. Stafford. That is 25 cents on the hundred?

Mr. ABELL. Yes, sir.

Mr. Stafford. So they were selling before the last rise took place at \$2.25 a hundred?

Mr. ABELL. Somewhere in that neighborhood.

Mr. STAFFORD. Was that the lowest price it has been sold for during the six months past?

Mr. ABELL. Yes, sir.

Mr. Stafford. When was the lowest price reached?

Mr. Abell. I should say about a year ago.

Mr. STAFFORD. That lowest price prevailed until a few months ago?

Mr. Abell. Yes, sir.

Mr. Stafford. Do you know the occasion for the increase to the present price?

Mr. ABELL. No; I do not of my own knowledge.

Mr. Stafford. Has your house had any difficulty in obtaining

during the past six months the supply of news-print paper?

Mr. Abell. Why, there have been times we could not get the paper as promptly as we would like to have gotten it, but most of our orders have been filled where people waited for it.

our orders have been filled where people waited for it.

Mr. Stafford. In your sale of news-print paper, do you ever act
as agents for the sale of the output of any mills, or are you purchasers direct and make the contracts of your individual customers?

Mr. Abell. Our relation is only as buyer and seller, and we do

not act as agent.

Mr. Stafford. In your dealings with news-print paper, do you purchase more from eastern mills or Wisconsin?

Mr. Abell. We purchase more from the East than in the West.
Mr. Stafford. What determines the place where you purchase
your supply of print paper?

Mr. ABELL. The better quality for the lowest price.

Mr. STAFFORD. Is there much difference in the quality of newsprint paper as manufactured by the established mills of the country?

Mr. ABELL. We think there is. We think the quality of the spruce

in certain territory in the East is better than in the West.

Mr. STAFFORD. Do your customers demand the better quality in its purchases?

Mr. Abell. They are always looking to get the best for the price. Mr. Stafford. Do they demand the better quality, or isn't there

a better quality that is accepted by all newspapers?

Mr. ABELL. We find that some of our customers prefer this eastern product, having used it, find it does their work better, and occasionally a customer specifies a particular mill's make in the West, and we always aim to get him whatever he specifies.

Mr. STAFFORD. When you put your price up to \$2.50, was that price raised by all manufacturers at the same time or about the same

time?

Mr. Abell. I could not say whether it would cover the same time or not. I should say approximately the same time.

Mr. Stafford. By both the eastern and western manufacturers?

Mr. Abell. Yes, sir.

Mr. Stafford. At what place do you purchase your news-print

paper from the various mills?

Mr. Abell. At place of manufacture, f. o. b. delivered at Chicago. We make a customer an offer f. o. b. the mill, f. o. b. Chicago or f. o. b. in his home town, according as he specifies.

Mr. Stafford. I am asking what your house does, whether the contract prescribes the price delivered in Chicago or price at the

mill?

Mr. Abell. I should say the contract prescribes f. o. b. for Chicago tonnage and f. o. b. the mill for direct shipment. That is my idea of it. I am not in the purchasing department, but I think that is the way.

Mr. Stafford. Are you acquainted with the freight rates on newsprint paper from the eastern mills to Chicago and the Wisconsin mills

Mr. ABELL. No, I am not. We leave that entirely to our traffic department, getting those rates from the traffic department as we

want to quote the customer.

Mr. STAFFORD. When you purchase a supply from the Wisconsin mills, what is the practice of your company in seeking bids from respective paper manufacturers?

Mr. ABELL. We should ask for price for direct shipment f. o. b. to

Chicago.

Mr. Stafford. Do you seek to obtain quotations from all the mills, or only from a limited few?

Mr. ABELL. Oh, usually from the mills we have found it has been

most advantageous to deal with.

Mr. Stafford. Have those mills been in a position to supply you with the necessary supply of news-print paper in the last six months? Mr. Abell. Yes, sir; they have done fairly well by us.

Mr. Stafford. So you write direct when you wish quotations on

your news-print paper to the mill owners?

Mr. ABELL. Yes, sir.

Mr. Stafford. And not through any other intermediary?

Mr. Abell. No, sir. Mr. Stafford. You obtain various quotations from the various manufacturers?

Mr. Abell. Yes, sir. Mr. Stafford. There has been considerable testimony taken alleging that there has been an understanding among the manufacturers of news-print paper, but very little testimony has been taken so far as to whether there has been any understanding or combination among the manufacturers of book, ledger, or writing papers. Are you in a position to tell whether—to state as to the conditions of manufacturers of book, ledger, and writing paper?

Mr. ABELL. No, I am not.

Mr. Stafford. Do you know whether there has been any claim made that there was a combination or understanding in those particular lines?

Mr. ABELL. No, I do not. All I know is what I have read in the

papers.

Mr. STAFFORD. Are there any special districts in the country which make a specialty of manufacturing either of those three kinds of paper

Mr. ABELL. Yes, sir.

Mr. Stafford. Designate where those localities are?

Mr. Abell. Holyoke, Mass.; in the vicinity of Kalamazoo; up on the Fox River, Wisconsin, around Appleton, Neenah, Menasha.

Mr. Stafford. In those places what special paper is manufactured? Mr. ABELL. Most all of those places I mentioned manufacture fine writing papers and the cheap grade of ledgers.

Mr. STAFFORD. So the same manufacturers manufacture all three of

these kinds of paper?

Mr. Abell. Not altogether. Some mills manufacture all three of those grades. Some mills confine themselves largely to one grade.

Mr. Stafford. In the news-print paper manufacture, that is made

by mills largely engaged in that character of manufacture?
Mr. Abell. Yes, sir.

Mr. Stafford. For what length of time are you entering into contracts for newspapers for furnishing them with their paper?

Mr. ABELL. That I could not say.

Mr. Stafford. You are acquainted with the price being paid by the Chicago dailies at the present time, or the quotations being made by mill manufacturers to large dailies for the supply of print paper?

Mr. ABELL. I am not. I have read some of the printed testimony, I believe, of the representative of the Tribune, but it has slipped my

mind now.

Mr. Stafford. I am seeking what is the present price.

Mr. ABELL. No; I am not.
The CHAIRMAN. These prices that you give us, Mr. Abell, as to

news-print paper are for paper in rolls or in sheet?

Mr. Abell. No; sheet paper. There is little roll paper shipped out of the house, but the difference in price as between rolls and sheet is very slight.

The CHAIRMAN. Is sheet paper a trifle higher? Mr. Abell. A trifle higher than roll paper.

The Chairman. You spoke of an increase in the last three months and that the lowest price was about a year ago. Aren't you a little mistaken about the dates? Do you buy paper?

Mr. ABELL. I don't buy paper. Those are based on my impres-

sion from having sold paper.

The CHAIRMAN. A year ago was when they had their great scare? Mr. ABELL. I could not give you the exact dates without looking it up. My impression is from having sold the paper, knowing the market was up and down. I have nothing to do with the purchasing department.

The Chairman. I assume from what we learned elsewhere that there was a little falling off in the price of paper during the summer. Paper sold in New York at auction for less than 2 cents a pound a

short time ago.

Mr. ABELL. I know when the drought came and had a tendency to put up the price of paper again, the mills shut down over the country and the International had a strike.

The CHAIRMAN. But it was the low price of paper particularly I

wanted.

Mr. Abell. Yes, sir.

The CHAIRMAN. I want you specially to look up that fact.

Mr. Abell. I do not think the conditions of prices resulting from

the auction sale should be taken as the market price.

The Chairman. No, that is true; but the condition of the auction sale might have a tendency to show the tendency of the paper manufacturers in selling paper. I think at the time this investigation commenced they were pretty stiff on paper at about \$2.50. It went off, as we know, quite decidedly from that, from some of the paper manufacturers. Just what they are getting now we can't say except what the record shows.

Mr. Abell. Yes, sir.

The CHAIRMAN. The statement furnished by Mr. Abell is to be inserted in the record and is as follows:

Prices of paper per pound in certain years.

Year.	News- print paper.	Sized and super- calender- ed book paper.	St. Charles writing paper.
79.	\$0.074	\$0, 12	<b>\$</b> 0, 15
83	.061	.09	. 12
84	.05	.08	
19.5	.043	.074	.10
87	.04	.072	.09
393	.03	.043	.08
96	023	. 041	1 .07
97.	~~~	.041	.07
98	. 024	.03	. 07
NO9	.021	.031	.07
00.	.03	.043	.08
01	.024	.03	.07
02	.021	.04	. 07
03	. 02	.044	. 07
04	.02	.04	.07
05	. 02	.04	. 07
906	. 026	.041	. 07
007	. 029	.04	.08
908	. 0275	.04}	.08

On November 20 and 21, 1908, the committee were at Johnsonburg, Pa., and inspected the mills of the New York and Pennsylvania Company producing fiber by both the soda and sulphur process. At this mill hemlock slabs and edgings are largely used in the production of sulphite and various hard woods such as maple, beech, birch, cherry, gum, elm, willow, basswood, cucumber tree, tulip tree, and quaking aspen are used in the soda process. The committee made a very careful inspection of the wood used and the processes of production in the manufacture of soda fiber. On November 21 the committee went into the extensive forests in the vicinity of Johnsonburg, owned by the New York and Pennsylvania Company, examined the methods of lumbering adopted, including the saving for pulp wood of those portions of the trees cut for saw logs, such as tops, etc., as were formerly wasted. The committee also examined the character of the forests in which no cutting of trees has ever been done, the forests in which the larger trees were being cut leaving the smaller trees standing, and pure second-growth forest where the entire original forest had been cut off some years ago. The forest conservation methods adopted by this company, together

with the methods adopted for profitable use in manufacture of great quantities of stuff that was formerly refuse, such as slabs, edgings, old butts, old fallen logs, etc., are worthy of most careful study and are a great credit to the company.

In connection with this visit to Johnsonburg, the committee took

the following testimony:

# STATEMENT OF E. L. MYERS, OF JOHNSONBURG.

(The witness was sworn and examined by the chairman.) The CHAIRMAN. Mr. Myers, will you give us your full name?

Mr. Myers. Edward Lyman Myers.

The CHAIRMAN. Are you connected with the New York and Pennsylvania Company—Clarion Mills—in Johnsonburg?

Mr. Myers. Yes, sir.

The CHAIRMAN. What position do you hold with this company? Mr. Myers. Position of purchasing agent. My duties are looking after our timber lands and our supply of pulp wood.

The CHAIRMAN. Are you familiar with the various lands and their

operations?

Mr. Myers. Yes, sir.

The CHAIRMAN. About how much land does your company own in this locality?

Mr. Myers. About 116,000 or 117,000 acres.

The CHAIRMAN. We would be glad to have you, in your own way, go ahead and tell us as to your branch of the business.

Mr. Myers. About the first thing we do is to ascertain our require-

ments of pulp wood for the ensuing year, and we then— The Chairman. About how much is this?

Mr. Myers. About 60,000 to 65,000 cords per year of hard woods and hemlock body wood for our soda mills, and about 30,000 to 35,000 cords per year of hemlock slabs and edgings for our sulphite mill. We then ascertain approximately the amount of pulp wood we will receive from parties other than our own lands; also the amount that we will cut on lands where we purchase the stumpage. We then go through our property and ascertain the sections containing the timber that has reached its maturity and is deteriorating on account of its age. We then lay out such portion of the territory estimated to cut the required number of cords and complete our arrangements to have the timber cut and otherwise prepared into pulp wood. selecting this territory we, of course, give the fire risk due considera-We then operate with great care so as to avoid damaging young timber, also to prevent our cutters from cutting same into pulp wood. On our lands we do not cut trees under 6 inches in diameter. We, however, work all of the tops and limbs into pulp wood as small as 11 inches in diameter. In some sections we do not cut the young trees as close as 6 inches in diameter. This depends entirely upon the soil and how rapidly the timber is growing, and in some cases where the young timber is growing fast we do not enter this portion to cut any large trees, as we believe we do more damage to the young trees than if we allow the old large trees to rot. operate our properties with a view of reforesting. In the territory where we follow the lumbermen we work into pulp wood all of the tops, limbs, etc., the same as on our own property, but sometimes we

take the young standing timber smaller than 6 inches, because we find the lumbermen have cut down hard wood for camps, slides, railroad ties, etc., and have damaged the timber considerably in felling the trees. The conditions of the timber, locality, etc., govern our method of operating.

The CHAIRMAN. About how much of your 117,000 acres is in

Mr. Myers. I think about one-half, about 50,000 or 60,000 acres.

The CHAIRMAN. What is the balance of the land?

Mr. Myers. Mostly second growth, young timber. We have some barren land with nothing on it.

The CHAIRMAN. Is the half you refer to as being in forests the

original timber?

Mr. Myers. Yes, sir.

The CHAIRMAN. Is there any timber around here that has never

been cut over?

Mr. Myers. Yes, sir. None of the hard woods on the 50,000 acres, or one-half of our land, has been cut over; the virgin hard-wood timber

The CHAIRMAN. It is all second growth?

Mr. Myers. No, sir. It is virgin.
The Charman. What do you mean by first and second growth? Mr. Myers. By first growth I mean the virgin timber. By second growth I mean such trees as we are reforesting.

The CHAIRMAN. Is there any virgin timber in this locality?

Mr. Myers. Yes, sir.

The CHAIRMAN. I understood you to say there was no virgin timber. What kind of wood is the virgin?

Mr. Myers. Maple, beech, birch, hemlock, and elm.

The CHAIRMAN. How large?

Mr. Myers. From 20 to 48 inches in diameter. We have some timber larger than that.

The CHAIRMAN. How tall?

Mr. Myers. It is from 30 to 60 feet up to the branches.

The CHAIRMAN. How old is it?

Mr. Myers. I suppose 75 years. I have counted rings on some of the trees which showed them to be about that old.

The CHAIRMAN. Do you find any 36-inch diameter timber around here that is only 75 years old?

Mr. Myers. Yes, sir.

The CHAIRMAN. I would like to see it. What sort is it?

Mr. Myers. Poplar and elm.

The CHAIRMAN. You state poplar. What do you mean by poplar? Mr. Myers. White poplar, such as grows in our section.

The CHAIRMAN. Do you mean aspen?

Mr. Myers. No; white poplar. • The Chairman. Do you know that there is no such thing as poplar?

It is all cottonwood.

Mr. Myers. It may be of the cottonwood family, but the poplar such as is familiar in this section—is not the same as the cottonwood in the West.

The CHAIRMAN. Do you use any of the large saw logs for pulp wood? Mr. Myers. We do not use many saw logs—only ones unfit for lumber.

The CHAIRMAN. Do you use any 36-inch maple?

Mr. Myers. Yes, sir.
The Chairman. You do not have lumbermen cut it off first? Mr. Myers. In some cases, where we follow the lumbermen.

The CHAIRMAN. I hat is what I wanted to get at. What do you mean by following the lumbermen? Do you lumber your forests first?

Mr. Myers. Yes. sir; through the section where the hemlock is the heaviest growth.

Mr. PAINE. A.r. Mann refers to our own tracts. We operate these

The CHAIRMAN. Do you cut any saw logs on your own lands?

Mr. Myers. We cut some of the best timber into saw logs.

The CHAIRMAN. You take what would be good for saw logs out, and the rest you cut down for pulp wood, down to a certain limit; so you lumber the land first.

Mr. Myers. Yes, sir; but not all of it. Only in sections where the timber is good. Of course we can not lumber unless there are

saw logs there.

The CHAIRMAN. What will your best forests average? The number

of board feet per acre?

Mr. Myers. I do not know exactly. I have never estimated the number of board feet. We have acres that will cut 50 cords of pulp wood.

The Chairman. You do not estimate your forests for saw logs?

Mr. Myers. No, sir.

The CHAIRMAN. Have you any estimate of the saw log timber that you have?

Mr. Myers. No, sir.

The CHAIRMAN. You say one-half of your holdings—that is 50,000 acres or more—is virgin timber. Is that large timber?
Mr. Myers. Yes, sir. It will run from 8 inches up.
The CHAIRMAN. That is matured timber?

Mr. Myers. Yes, sir. The Chairman. What are you doing with that, using exclusively for pulp wood?

Mr. MYERS. No, sir. We cut some logs. The CHAIRMAN. How do you operate it?

Mr. Myers. In the winter we go over a certain section of our land. and cut out the sawing timber. In the spring we go through and cut the next size timber; also the large trees that do not make sawing We never cut any logs under 15 inches in diameter. The following fall we go through and cut into pulp wood the tops and We do this owing to the fact that the sun will crack open the bark, making it easy to peel and allowing us to get the bark off much

The Chairman. You take out the saw logs separately?

Mr. Myers. Yes, sir.
The Chairman. What is done with the saw logs?

Mr. Myers. We supply a butter-dish factory here, also a sawmill we own where we cut lumber.

The CHAIRMAN. The company owns a sawmill where you can convert saw logs into lumber?

Mr. Myers. Yes, sir.

The Chairman. Then, following that, you cut the balance down to a certain limit, which you say is about 6 inches for pulp wood?

Mr. Myers. Yes, sir.

The CHAIRMAN. What do you cut for pulp wood? What kind of timber?

Mr. Myers. Beech, birch, maple, cherry, bass or linn, cucumber, whitewood, elm, quakenasp, butternut, buttonwood, and walnut.

The CHAIRMAN. I understood this afternoon, walking around the plant with Mr. Paine and the rest of you, that you cut 23 different kinds of hard wood. I wish, if you could, you would give me a list of

Mr. Myers. I can probably name them, but I do not think Mr. Paine told you 23 kinds. We use all hard woods with the exception of oak and chestnut.

The CHAIRMAN. That covers it. You practically use all the hard-wood trees that grow in this locality for pulp wood, except oak and chestnut. That includes all kinds of oak?

Mr. Myers. Yes, sir.

The CHAIRMAN. Have you tried to use oak? Why do they throw the oak out?

Mr. Myers. I understand it contains tannic acid.

The CHAIRMAN. It does not contain any more than hemlock.

Mr. Myers. Yes, sir; it does. Hemlock contains tannic acid in the bark, and with the oak the tannic acid is also in the wood.

The CHAIRMAN. That is the reason why they throw out chestnut

and oak?

Mr. Myers. Yes, sir; the way I understand it. We use the woods embodied in the specifications of pulp wood.

(At this point a copy of the specifications was handed to the chairman. The paper reads as follows:)

#### SPECIFICATIONS OF PULP WOOD-NEW YORK AND PENNSYLVANIA COMPANY.

Kinds of woods used at our mills.—We use the following kinds of wood at our mills: Maple, beech, birch, cherry, gum, buttonwood, butternut, elm, willow, bass or linn, cucumber, poplar, and quaking-asp.

Quality of wood.—All kinds of wood must be sound, outside and inside bark removed,

and wood kept clean.

How wood must be prepared.—All wood must be cut full 5 feet (60 inches) from end to end, sawed; no sticks to be split that are under 10 inches in diameter; sticks from 10 to 14 inches split once only; sticks over 14 inches may be quartered. The

outside and inside bark must be thoroughly peeled off.

Wood should be peeled during the season when the bark slips—from the middle of April until the middle of September. I imbs must be trimmed close. Wood must be free from large and black knots. Straight limbs over 4 inches in diameter will be accepted. Round wood showing rotten and defective hearts must be split open and all such parts removed from same. Wood must be straight.

We do not purchase unpeeled wood.

Wood that will not be accepted.—We do not use white pine, ash, chestnut, oak, or hickory, nor wood containing burned or charred sticks, nor wood which is bark fallen or sap rotten, nor sticks containing rotten or black hearts and large black knots, nor wood under 4 inches in diameter at small end; nor will we accept unsplit crotches or crooked wood.

How to load and ship.—Wood must be seasoned before shipping. Consign to New York and Pennsylvania Company, Johnsonburg, Pa. When loading car, wood must be laid straight and tightly ranked. This also applies to wood delivered in our yards by teams. Shippers must promptly notify us date of shipment, number and initial of car; height, width, and number of ranks of wood contained in car.

Measurement.—All wood is subject to our inspection and measurement at our mills, based on cords of 160 cubic feet. When these specifications are complied with, we are very particular to allow full measurement. All wood received by us is scaled by experienced and competent men. Each rank in car is carefully inspected and scaled separately, and we always measure full height, width, and length of wood.

Weights of wood, cord of 160 cubic feet.—All woods when green will weigh about 2½ tons per cord of 160 cubic feet. When seasoned, hard woods weigh about 1½ tons per

cord of 160 cubic feet; soft woods weigh about 11 tons per cord of 160 cubic feet.

Payments.—Payments will be made spot cash, less 2 per cent, upon arrival of wood

and freight bills.

Caution .- Please note that these specifications must be strictly complied with.

All wood must be cut 60 inches long—full 5 feet.

Wood cutters sometimes cut wood 2, 3, and 4 inches short. Please take notice that all wood cut from 4 feet 7 inches to 4 feet 11 inches will be measured as 4½-foot wood. All wood cut from 4 feet 2 inches to 4 feet 6 inches will be measured as 4-foot wood.

Contents of all wood cars are carefully inspected when received at our mills as to loading, splitting, length, peeling, rotten, charred, and burned wood. Not one stick is unloaded without being inspected. Wood 4 feet long and under must not be shipped unless by special arrangements.

E. L. Myers, Purchasing and Freight Agent, Johnsonburg, Pa.

For New York and Pennsylvania Company, Clarion Mills. Issued December 1, 1904. Superseding all specifications previously issued. We also use hemlock slab wood and hemlock body wood at Johnsonburg. Write

for specifications for these woods. Jack pine is used at Lock Haven Mills. Address all inquiries pertaining to same to

New York and Pennsylvania Company, Lock Haven, Pa.

The Chairman. You buy wood in accordance with these specifications in the main?

Mr. Myers. Yes, sir. Of course we make certain allowances, but buy in accordance with same, in the main.

The CHAIRMAN. How much of your own wood have you cut in the

past year? Can you estimate it?

Mr. Myers. That is, you mean from the first of the year?

The CHAIRMAN. Yes. Or in other words what proportion of the whole have you cut on your own land?

Mr. Meyers. We have cut probably 15,000 cords on our own lands

this year.

The CHAIRMAN. If you have so much matured timber, that is

virgin timber, why can't you cut more?

Mr. Myers. This year we became overstocked with pulpwood, owing to our mills not running full. Furthermore, we arranged for a large amount of stumpage from the Emporium Lumber Company, on the Goodyear Lumber Company's lands at Medix Run. It is necessary for us to remove this wood as fast as possible on account of the Goodyear's expecting to take up their railroad.

Mr. Ryan. I have been informed that they use the wood down into

the roots.

Mr. Myers. Not that I know of. When we cut our timber we cut just as close to the ground as possible; within 3 to 10 inches of the ground; that is, when we are cutting in the spring or summer, but in the winter we can not cut down so low on account of the snow.

The CHAIRMAN. Where you buy this stumpage, is that stumpage for virgin forests or stumpage for saw logs?

Mr. Myers. Saw logs have been taken out.

The CHAIRMAN. What basis do you buy it on? So much per cord, or upon an estimate

Mr. Myers. Sometimes we buy it on an estimate and sometimes so much per cord.

The Chairman. Do you have men go over the land and estimate?

Mr. Myers. Yes, sir.
The Chairman. What do you call them?

Mr. Myers. Pulp-wood estimators.

The CHAIRMAN. On the stumpage land do you strip the land entirely?

Mr. Myers. We do not very often cut under 6 inches. We work

the tops and limbs as close as 1½ to 2 inches.

The Chairman. Why do you not cut under 6 inches on this stump-

Mr. Myers. Because we figure on reforesting, and it is our desire to have the lands in our section again reproduce themselves with timber. This we consider is for our best interests.

The CHAIRMAN. What do you pay for stumpage?

Mr. Myers. We pay different prices. About \$1 per cord. That will all depend on the locality and what it costs us to get it out.

The CHAIRMAN. Does it depend any on the kinds of trees? Mr. Myers. No, sir.

The CHAIRMAN. Size or variety?

Mr. Myers. No, not particularly; but we make some distinction concerning hemlock. This is on account of our only taking the butts, breaks, tops, and limbs after the lumbermen have removed all of the suitable sawing timber.

The CHAIRMAN. Which is the more valuable for making fiber,

hemlock per cord or maple per cord?

Mr. Myers. I do not believe I can answer that. I am instructed to furnish so much hard wood and hemlock. We divide our woods into hard wood and hemlock. That is the only distinction we make.

The Charman. Do you take hard wood as it comes, regardless of

any particular kind? Mr. Myers. Yes, sir.

The CHAIRMAN. By that you mean if there is a clump of maple or beech trees, etc., you go right through and cut?

Mr. Myers. Yes, sir.

The CHAIRMAN. You do not find any full forests of beech of any size?

Mr. Myers. We have forests that will probably run 80 per cent beech.

The CHAIRMAN. How large territory?

Mr. Myers. We have one property of about 1,200 acres.

The CHAIRMAN. Has that ever been cut?

Mr. Myers. No, sir.

The CHAIRMAN. If you were cutting that before following some lumberman's operation, would you run pulp wood into the mill 80 per cent beech for soda fiber?

Mr. Myers. Yes, sir.

The Chairman. It does not require to be mixed in any way?

Mr. Myers. No, sir.

The CHAIRMAN. Any kind is just as good?

Mr. Myers. Yes, sir.

The CHAIRMAN. What do you call soft woods?

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Mr. Myers. Bass, cucumber, quakenasp, aspen, whitewood, and

The CHAIRMAN. You do not use any jack pine?

Mr. Myers. No, sir. Not at Johnsonburg. The Chairman. Is there much spruce in this locality?

Mr. Myers. No spruce at all. The Chairman. There is much hemlock?

Mr. Myers. Yes, sir.

The CHAIRMAN. Is hemlock the prevailing tree?

Mr. Myers. Yes, sir; I think it is. This is a heavy hemlock section.

The CHAIRMAN. What would propably come next?

Mr. Myers. Maple.

The CHAIRMAN. That is hard maple?

Mr. Myers. Yes, sir.

The CHAIRMAN. Is there much soft maple?

Mr. Myers. No; not very much. The Chairman. There is a good deal of beech here?

Mr. Myers. Yes, sir.

The Chairman. Is there very much birch, and what kind?

Mr. Myers. There is not very much black birch, but there is yellow birch, as we call it. Some sections call it white.

The CHAIRMAN. There is certainly a great distinction between them; one has a white bark and the other yellow.

Mr. Myers. The bark is practically the same; you can not tell the difference.

Mr. PAINE. The white birch we get in the Adirondacks is entirely different from what we call white birch here. The Adirondack white birch has a perfectly white bark, whereas the yellow birch has a yellowish bark.

The Chairman. Do you use any cherry?

Mr. Myers. Yes, sir.

The CHAIRMAN. Do you use bird cherry?

Mr. Myers. Yes, sir. We call it fire cherry. The Chairman. What gum tree do you use, sour or sweet? Is there any sweet gum?

Mr. Myers. No, sir; not that I know of. The Chairman. Do you use butternut?

Mr. Myers. Yes, sir.

The CHAIRMAN. Have you any walnut?

Mr. Myers. An occasional tree.

The CHAIRMAN. Do you use walnut?

Mr. Myers. We use it when it can be obtained.

The CHAIRMAN. I did not notice any ash; is there any here? Mr. Myers. Yes, sir; there is some through this section. We use

the swamp or black ash, but not the white ash. The CHAIRMAN. Do you use willow or basswood?

Mr. Myers. Yes, sir. Also poplar.

The CHAIRMAN. You mean cottonwood?

Mr. Myers. There is a difference between cottonwood and poplar.

The CHAIRMAN. Do you mean by poplar, white poplar?

Mr. Myers. Yes, sir.

The CHAIRMAN. The real poplar, which is cottonwood, includes a number of different varieties, but that which usually comes up every

place after being cut over is called aspen. You do not use white pine?

Mr. Myers. We have used a small amount of white pine. Mr. Stutz. We prefer not to use it on account of the yield.

The Chairman. Why?

Mr. PAINE. The number of fibers per cubic inch is small, and the fibers are loosely put together; by the soda process it does not pay. We take very little at this mill. We get some at Lock Haven, mixed in with jack pine, probably 98 cords of jack pine to 2 cords of white pine.

The Chairman. What do you use jack pine for?

Mr. PAINE. For long fiber pulp, cooked by the soda process.

The CHAIRMAN. Does it make good pulp?

Mr. PAINE. Yes, sir.

The CHAIRMAN. Is it expensive?

Mr. PAINE. Yes, sir.

The CHAIRMAN. Is that the reason it is not generally used?

Mr. PAINE. Yes, sir. It requires a special process and a mill especially adapted to use it. It could not be used in a sulphite mill It can not be cooked by the sulphite process.

The CHAIRMAN. In some places where we have been we have found

they used jack pine for ground wood in making box boards.

Mr. Paine. You can make an inferior pulp with it, but unfit for white paper.

The CHAIRMAN. Why don't you use ash?

Mr. PAINE. Ash is a very hard wood to treat and has very short fiber. We probably do get many sticks mixed in with our hard wood, but we try to keep it out. It is a hard wood to treat and makes the fiber stand up on end, causing fuzzy paper.

The CHAIRMAN. What is the matter with hickory?

Mr. PAINE. It is a very hard wood to treat. It is almost as hard to treat as ironwood.

The CHAIRMAN. Do you throw out the ironwood.

Mr. Paine. We do if we know it.

The CHAIRMAN. Is there much ironwood through. Pennsylvania?

Mr. Myers. Scarcely any. I do not suppose I have run across over 40 or 50 trees in my experience.

The Chairman. What are you doing with the other half of your holdings which are not virgin forests?

Mr. Myers. We are simply holding it and protecting the young timber.

The Chairman. Are you reforesting it yourselves?

Mr. Myers. We are reforesting it from our point of view. We are not planting because we feel that more young trees will spring up each year than an army of men can plant. Our chief method of reforesting is to prevent the forest fires from burning over it. forest commissioners have tried to interest us in planting, but we feel, if the territory is protected from forest fires, we will have sufficient timber to supply us indefinitely.

Mr. Ryan. What means do you employ to protect forests from

fires ?

Mr. Myers. We make fire lines, by allowing a certain amount of green timber to stand around the edge of our property close to the

railroads or where there is danger of fires coming in on us. During the dry season, which is spring and summer, we have men patrol the property. We also have our railroads equipped with tank cars to use in case of emergencies. These tank cars are equipped with pumps and 300 to 500 feet of 21-inch fire hose.

Mr. Ryan. What do you attribute the principal causes of forest

fires to?

Mr. Myers. I believe 90 per cent of the forest fires originate from railroads. During the dry season we do not operate our railroads at all. We close them down. We always trace a fire to its origin, and in ninety; cases out of a hundred they have come from railroads.

The CHAIRMAN. These forests which you have preserved will furnish you an available supply for your future. Do you mean your own

holdings or forests in your locality?

Mr. MYERS. I think we have almost lands enough of our own to furnish our future supply. I have advised our company to purchase young timber in place of matured timber.

The CHAIRMAN. But half of your own lands are now virgin forests, and yet this year you have taken off not over 20 per cent of

your supply?

Mr. Myers. Yes, sir.

Mr. Ryan. Is that 65,000 cords all for the mills in Johnsonburg?

Mr. Myers. Yes, sir. Mr. Ryan. Is this just one mill?

Mr. Myers. No; you understand that I attend to the supply of pulp wood for the Highland mill in additon to the Clarion mills.

The CHAIRMAN. Your supply covers the two mills?

Mr. Myers. Yes, sir.
Mr. Ryan. What does your wood cost you per cord delivered here from your own lands?

Mr. Myers. Our wood cost us about \$6.25 per cord delivered

here ready for the chipper.

The CHARMAN. That includes hemlock and hard wood?

Mr. Myers. It does not include hemlock slabs and edgings. hemlock slabs and edgings, when the lath stock is not taken out. costs us about \$5.35 per cord at the mill, ready for the chipper.

The CHAIRMAN. When you compute the average cost of the wood here, do you mean the wood you buy stumpage, or the wood you get

on your own lands?

Mr. Myers. Average of all hard woods.

The CHAIRMAN. Upon what basis do you figure the cost of the

wood on your own lands?

Mr. Myers. We add to the purchase price the expenses, such as taxes, cost of looking after the property, etc., and ascertain the cost per cord, based on the estimated number of cords of pulp-wood on the

The Chairman. How do you arrive at the cost of any particular

tract?

Mr. Myers. When making the purchases we give the tract a number, also a name, and on our books we keep each tract separately. We add to the purchase price all money expended for taxes, etc.

The CHAIRMAN. Have you any idea what the average cost of your

virgin forest is?

Mr. Myers. That will depend on the number of years we have to

The CHAIRMAN. Have you any idea as to the present average cost of the virgin forests per acre, or any other quantity basis?

Mr. Myers. About \$45 per acre.

The CHAIRMAN. How much would that be per cord?

Mr. Myers. About \$1.

The Chairman. What do you figure the average cost of your forests of second growth is?

Mr. Myers. About \$5 per acre.

The CHAIRMAN. You must have purchased that land pretty cheap? Mr. Myers. We figure that it will be necessary to hold it a long time.

The CHAIRMAN. Does this land around here have anything on it now, or is it practically barren?

Mr. Myers. It is practically barren.

The CHAIRMAN. What is the land worth?

Mr. Myers. I suppose from \$2 to \$4 per acre.

The CHAIRMAN. It is rocky ground?

Mr. Myers. Yes, sir.

The CHAIRMAN. Can it be used for any other purpose than raising trees?

Mr. Myers. No, sir; I do not think it can.

The Chairman. Have any of the tracts that lie along the railroads been used for any other purposes?

Mr. Myers. No, sir.

The CHAIRMAN. They do not seem to be reproducing.

Mr. Myers. This is owing to fires originating from railroads.

lands adjacent to the railroads burn over every year or so.

The CHAIRMAN. Do you think that this land that lies near the railroad, if you keep the fires out, would produce forests without plant-

ing, and how soon?

Mr. Myers. It is my opinion that this land will not produce forests for a great length of time. The soil has been burned so hard that it is practically worthless and impossible for the young trees to get a I believe, however, that in time trees will grow up if protected start. from fires.

The CHAIRMAN. What kind of timber?

Mr. Myers. In some sections the second-growth timber will be aspen and bass, and in others it will be beech, maple, and hemlock.

The CHAIRMAN. Of course, beech seed does not go very far unless it flows downstream. That is, it does not fly very far. Maple seed will fly some distance, but not a great distance.

Mr. Myers. No, sir. The Chairman. In order to reforest a section that is entirely void of trees you must have some kind of seed that is either carried by the wind or in some other manner to the ground. Now, what would be the tree that would most likely reproduce itself around here?

Mr. Myers. It would be either a maple, basswood, aspen, or poplar,

as it is called in this section.

The CHAIRMAN. But the basswood is not a poplar. You do not know of any trees having started without the aid of seed?

Mr. Myers. No, sir; certainly not.

Mr. RYAN. In that section, where you buy stumpage, and you leave small trees, you feel reasonably sure they will be protected

against fire?

Mr. Myers. Yes; I do in some sections, because back from the trunk line railroads the lumbermen take out their railroads as soon as the timber has been removed, which eliminates the danger from forest fires.

Mr. Ryan. Is that country good for agriculture?

Mr. Myers. I should not think so.

The Chairman. How much of your land which you now have has second-growth timber on it?

Mr. Myers. I think about 40,000 acres. Do you mean how much

of it the timber has not started on at all?

The CHAIRMAN. That is what I wanted to get at.

Mr. Myers. I should say 10,000 or 15,000 acres has no timber on it. The Chairman. And the rest is timber, how much and how old?

Mr. Myers. The rest is timber from 2 inches in diameter up to 12 inches in diameter.

The CHAIRMAN. What is the prevailing variety? Hemlock?

Mr. Myers. Yes, sir; considerable hemlock, maple, beech, basswood, and poplar.

The CHAIRMAN. Are there any evergreen trees other than hemlock?

Mr. Myers. Some pine.

The CHAIRMAN. Jack pine? Mr. MYERS. White pine.

The Chairman. How old do you estimate that second growth to be? Or, rather, how long since saw logs were cut out?

Mr. Myers. Seven years to nineteen years.

The Chairman. Only seven years? Is this virgin forest since the company came here, where you have this second-growth timber?

Mr. Myers. It was virgin timber when we came here. The Chairman. That is timber that you have cut over? Mr. Myers. Yes, sir; but we have not cut all ourselves.

The CHAIRMAN. Or since others have cut over?

Mr. Myers. Yes, sir.

The CHAIRMAN. Where saw logs were taken out, and pulp wood! Mr. Myers. Saw logs have been taken out, and some pulp wood.

The Chairman. Then the smaller stuff is allowed to grow?

Mr. Myers. Yes, sir.

The CHAIRMAN. Has fire been through it?

Mr. Myers. A portion of it fire has been through, but the largest percentage we have been able to keep the fire out.

Mr. RYAN. Have you second-growth hemlock 12 inches in diameter?

Mr. Myers. Yes, sir.

The Chairman. By second growth, he means where saw logs were cut out.

Mr. Ryan. By some one prior to you?

Mr. Myers. Yes, sir; we have second-growth trees which have grown 12 inches since the land was cut over.

The CHAIRMAN. Since when?

Mr. Myers. Since being cut over.

The CHAIRMAN. When?

Mr. Myers. I can not tell.

Mr. RYAN. How long have you been cutting on your lands?

Mr. Myers. I can not say exactly. About seven years.

Mr. RYAN. The lands you have been cutting seven years on, what is the size of the second growth?

Mr. Myers. We have timber all the way from 2 inches up to 12

inches in diameter.

Mr. RYAN. When you did cut, you cut to about 8 inches? Mr. MYERS. In some sections we cut 8 inches, some to about 6 inches; we seldom cut under 6 inches.

The CHAIRMAN. Why do you make this distinction, cutting some

8 inches and others 6 inches?

Mr. Myers. The timber seems to be more thrifty in some places than in others. It grows faster.

The CHAIRMAN. I do not understand.

Mr. Myers. Timber will grow faster in some sections than in others because the soil seems to be better adapted for the class of timber that is growing.

The Chairman. Why does that make any difference in the diam-

eter of the trees that you leave?

Mr. Myers. We figure that a tree 10 inches grows very valuable in

ten years.

The CHAIRMAN. You say you cut in some places down to 8 inches and in some 6 inches. Why do you cut 8 inches in one place and 6 inches in another?

Mr. Myers. We cut 8 inches in some places and 6 inches in others because the trees grow faster on account of the difference in the soil.

The Chairman. How fast do you estimate a tree will grow where you only cut to 8 inches? Any kind of a tree?

Mr. Myers. I figure, according to our method of operating, that

timber will grow about one-half cord per acre per year.

Mr. RYAN. That would be \$2.50 additional, and you take the chances of fire?

Mr. Myers. No, sir.

The Chairman. The stumpage is worth how much—about \$1?

Mr. Myers. Yes, sir.

The Chairman. So that would be an addition of 50 cents per cord. and you take the chance of fire?

Mr. Myers. No, sir; about \$1.50 addition.

The CHAIRMAN. How rapidly do you think these trees grow? You spoke about 12-inch hemlock—how old do you estimate that to be?

Mr. Myers. That I do not think I can answer, because I have not

counted the rings on them.

The Chairman. It does seem to us a remarkable fact that although we have examined a great many foresters, who are interested in the reproduction of forests, we have not found anyone who has taken the trouble to spend fifteen minutes to examine the rings to see how old the trees are. Now will you do us this favor? On some of your average trees, under normal conditions, cut us some disks off the logs, so that we will be able to ascertain how old they are, of different size trees?

Mr. Myers. Yes, sir.

The CHAIRMAN. This information to be published for your and others' benefit.

Mr. Myers. Good.

Mr. Paine. If we have 115,000 acres, and figure on a growth of one-half cord per acre per year, that would be a growth per year of 57,000 cords. That amounts to something. But, I think Mr. Myers has rather underestimated than overestimated.

The CHAIRMAN. I am inclined to think that he has overestimated.

Mr. Myers. I am certain I have not overestimated.

The Chairman. Yet, you have never examined the trees?

Mr. Myers. I have examined different trees; that is, I have counted the rings when we have cut down a tree to see how old it was and the size of it.

The CHAIRMAN. How old?

Mr. Myers. I have counted 74 rings on some trees.

The CHAIRMAN. What was the size, have you any record?

Mr. Myers. No, sir.

Mr. Stafford. What is the inducement of the owners of this stumpage land to retain it? Merely for the benefit of the mills in this locality?

Mr. Myers. I do not think there is any benefit for them to retain

it. They probably retain the land for mineral rights, etc.

The CHAIRMAN. Is any land in this section, that is cut over, thrown upon the county by the failure of paying taxes?

Mr. Myers. I do not know of any such land through this section. The CHAIRMAN. To what extent are you acquainted with the forests through this portion of the State?

Mr. Myers. I should say through Warren, Kane, Elk, Jefferson,

Clinton, Center, and a number of other counties.

The CHAIRMAN. In this section of the country do others than your

own company engage in reforestization?

Mr. Myers. Yes, sir, I think so. I have talked to a number of lumbermen who claim they are preserving the forests.

Mr. Statement Hes the State done envilling to set saids lands?

Mr. Stafford. Has the State done anything to set aside lands?
Mr. Myers. Yes, sir. Through Cameron, Clinton, Lycoming, Clearfield, and Center they have large holdings.

Mr. STAFFORD. What method is being followed by the State on

these lands?

Mr. Myers. They simply purchase the lands, which are put in charge of forest commissioners, who divide the lands into districts and place each district in charge of an inspector.

Mr. STAFFORD. Is there any difference in taxation on the land which

is being used for reforestization over that not so used?

Mr. Myers. Yes, sir.

Mr. Stafford. What benefit is given by the State to owners of

lands used for reforestation?

Mr. Myers. The State allows no benefit whatever, but the county does make a difference in the assessed valuation. As an illustration, on solid hemlock timber lands through this section the assessed valuation is about \$100 per acre. Hard-wood lands are assessed at from \$10 to \$20 per acre. The second growth and barren lands are assessed at from \$2 to \$6 per acre.

Mr. STAFFORD. What impartial advantage does the State give in a way of relieving timber lands from taxation when used for reforesta-

tion?

Mr. Myers. The State does not give any advantage whatever. They term the lands such as we are reproducing "stripped lands," and

the assessed valuation is different. On the lands where the hard wood is light, and after hemlock is taken off, the valuation would be reduced to about \$10 to \$20 per acre, and then after the hard wood is taken off the valuation is further reduced to \$2 to \$5 per acre.

Mr. STAFFORD. Would owners of these stripped lands find it to their business advantage to retain them for a possible growth in the future, rather than to sacrifice them by declining to pay taxes?

Mr. Myers. Some owners do and some do not. We hold our lands

with a view of reproducing them.

Mr. Stafford. I am directing your attention to the owners of

stripped lands as to what their policy is.

Mr. Myers. The policy of some is to pay the taxes. The policy of some is to let the land go to tax sale, but the county always finds willing buyers, and they are very seldom compelled to take over any amount for nonpayment of taxes.

Mr. STAFFORD. So that individual lumbermen generally are not in any way engaged in the development of lands for reforestation purposes; only private owners of timber lands, like yourselves and

other paper manufacturers?

Mr. Myers. As far as I know. Of course, individuals will become

more interested in the reproducing of forests each year.

Mr. STAFFORD. What is the State doing as far as reforesting goes? Have they forest reserves?

Mr. Myers. They have a forest reserve through central Penn-

sylvania.

Mr. STAFFORD. On the Allegheny Ridge?

Mr. Myers. Yes, sir.

Mr. Stafford. How many acres does this comprise?

Mr. Myers. I can not state positively, but I think they have something like 300,000 acres.

Mr. Stafford. How did the State come into possession of these

lands?

Mr. Myers. They bought it from the lumbermen and individuals after they had stripped them.

Mr. Stafford. How many years ago did they enter upon that

policy?

Mr. Myers. They have been buying lands now for probably five

The CHAIRMAN. How long do you say that this second growth has

been growing, as a rule?

Mr. Myers. It has been growing seven years to my knowledge.

Of course, some of it has been growing a long time.

The Chairman. Of course seven years would barely bring it above the top of the ground. Have you any idea how old this second growth is?

Mr. Myers. Some of it is from 12 to 15 years old. Some of it is

probably 18 years old.

The CHAIRMAN. Do you mean trees that old?

Mr. Myers. It has been that long since it was cut over.

The CHAIRMAN. How large are the trees now on that land?

Mr. Myers. The trees range from 8 to 14 inches.

The CHAIRMAN. Do you know how old these trees are?

Mr. Myers. No; I do not know how old they are.

The CHAIRMAN. How thick do they stand on the ground?

Mr. Myers. Do you mean the number of trees per acre?

The CHAIRMAN. Yes; or about how far apart do they stand?

Mr. MYERS. We have some second-growth trees standing not over 1 foot apart, but a large percentage of this will finally die out. We have some birch trees 12 inches in diameter standing as close together as 3 or 4 feet apart.

The CHAIRMAN. You speak of trees 8 to 14 inches in diameter;

how thick are they?

Mr. Myers. Some about 3 to 4 feet apart.

The CHAIRMAN. Twelve-inch trees?

Mr. Myers. Yes, sir.

The CHAIRMAN. They must be 150 years old to be that far apart. Mr. Myers. I do not think so. We have a property where I can show you trees growing 3 feet apart.

The Chairman. We want to see any trees you have standing 3 or

4 feet apart. .

Mr. Myers. You shall see them. When I stated birch trees 12 inches in diameter, standing 3 feet apart, I had in view our property at Birch Hollow, known as our second growth, toothpick territory. These trees are very tall and I have cut down a number of trees 9 inches in diameter stump that will only reduce to 7 inches at the last 4 feet cut out of the top. I do not make this statement to leave you under the impression that the trees on all our property grow 3 or 4 feet apart. This property is an exception to the average.

Mr. Stafford. This afternoon you stated that on lands owned by your company where you are reforesting, you allow the trees to come up as they will and do not engage in planting. Where the State

engages in forestry, do they plant?

Mr. Myers. I have not known them to do any planting. They let

the trees come up as they will.

Mr. Stafford. Do you believe, with such a plan as that, your com-

pany can engage in reforesting its lands at a profit?

Mr. Myers. I do not know whether it can be done at a profit or not. I can say that we can reproduce our pulp wood for from \$1.90 to \$2.50 per cord in that manner, and I think it is more successful than planting, because we have trees that are acclimated and better adapted to the soil. We have sent to the South for the North Carolina poplar, as they call it, and the Department of Forestry tried to interest us in the tulip tree. We planted some of these trees, on the Powers Run property, alongside of some poplars, but they did not thrive.

The CHAIRMAN. Is a 40-acre tract of good hard-wood forest here worth more for pulp-wood purposes than the same number of acres

of hemlock would be to you?

Mr. Myers. I can not answer that question. I know about what we would get off 40 acres in hard wood, but we have not taken body hemlock off 40 acres as it grows.

The CHAIRMAN. Can you grow as much hemlock on a 40-acre

tract as you can hard wood?

Mr. Myers. Yes; you can, but it will not grow as fast.

The Chairman. Hemlock can not grow as fast as the tulip tree, but it will certainly grow faster than the maple, which is the prevailing tree in this locality.

Mr. Myers. I do not agree with you there. I think the maple through our section grows rather rapidly. Take 40 acres of maple,

6 or 8 inches to-day, and in thirty years it will produce probably 15

cords of pulp wood per acre.

The CHAIRMAN. How is that, Mr. Paine? While you may not pay as much for hemlock as hard wood, is the number of cords of hemlock worth just as much, or more, or less, than the same number of cords of maple for the production of fiber?

Mr. PAINE. The hemlock is necessary where spruce is not avail-

able for the sulphite process.

The CHAIRMAN. And can be used for the soda process?

Mr. PAINE. And can be used for the soda process, but is not as valuable for the soda process as the maple. A cord of maple, 128 cubic feet, will yield at least 1,150 pounds per cord by the soda process.

The CHAIRMAN. It will?

Mr. PAINE. Yes, sir.

The CHAIRMAN. Spruce yields?

Mr. PAINE. A cord of good spruce—I am talking of peeled wood a cord of peeled wood, spruce, will yield 1,100 pounds by the sulphite process.

Mr. RYAN. What is the weight of that wood?

Mr. Paine. Mr. Myers can answer that.

Mr. Myers. A cord of hard wood will weigh 21 tons, seasoned; 3 tons, green. Hemlock, seasoned-body hemlock-will weigh about 2½ tons, green, and about 2 tons, seasoned.

The CHAIRMAN. I was under the impression that hemlock would

weigh 4,200 pounds to the cord, seasoned.

Mr. Myers. I have always figured on 2 tons.

Mr. PAINE. A cord of hemlock, by the soda process, will not yield over 650 pounds of pulp.

The CHAIRMAN. A cord of hemlock? Mr. PAINE. By the soda process.

The CHAIRMAN. As against 1,150 for hard wood?

Mr. Paine. Yes, sir.

The CHAIRMAN. So that for the soda process maple is more valuable than hemlock?

Mr. PAINE. Yes, sir.

The CHAIRMAN. Is the cost of reducing it any greater?

Mr. PAINE. No, sir.

The CHAIRMAN. It takes just as much caustic soda?

Mr. PAINE. It does not take quite as much caustic soda to reduce the hemlock, but it takes more bleach.

The CHAIRMAN. Is the labor the same?

Mr. PAINE. Yes, sir. The CHAIRMAN. The cost per cord, you say, is the same for reducing hemlock as it is for reducing maple?

Mr. Paine. Yes, by the cord.

The CHAIRMAN. And the cost per pound of product would be a great deal higher for hemlock than maple?

Mr. PAINE. Yes, sir. The CHAIRMAN. That is for soda fiber?

Mr. PAINE. Yes, for the soda fiber.

Mr. Myers. A cord of slabs and edgings will weigh 2,400 to 2,500 pounds.

The CHAIRMAN. How much do you figure a cord of slabs will make

in sulphite?

Mr. PAINE. A cord of slabs and edgings in sulphite, as we get them here, will produce about 550 pounds. In other words, we figure it takes 2 cords of slabs and edgings to equal a cord of body wood by the sulphite process.

The CHAIRMAN. You have a great deal more expense in preparing

slab wood for the sulphite mill than in straight, clean hemlock?

Mr. Paine. Yes, sir.

The CHAIRMAN. It produces only about one-half as much for sulphite?

Mr. PAINE. Yes, sir.

The Chairman. Then you must be able to buy your slab wood very cheaply in order to be advantageous to use it, as against clear hemlock?

Mr. PAINE. Yes, we obtain it for about half the price of spruce.

The CHAIRMAN. How does it compare with hemlock? I understand you do not use spruce.

Mr. PAINE. Yes, we have bought in the last year about 600 cords

of spruce from Canada.

Mr. Myers. Nearer 1,000 cords.

The CHAIRMAN. Where did it come from?

Mr. MYERS. A small part of it came from Wyoming County, this State, and the balance from Ontario, Canada.

The CHAIRMAN. Did you buy it for experimenting?

Mr. PAINE. Yes, sir.

The CHAIRMAN. Do you find it profitable to make sulphite out of spruce?

Mr. PAINE. Yes.

The CHAIRMAN. You practically eliminate spruce in the manufac-

ture of sulphite here?

Mr. Paine. We have never used it here beyond a little experimenting that we have done now and then. There is no doubt that the sale of these edgings and slabs is a profitable business to the sawmill men, and of course they are taking advantage of it. We are buying hemlock slabs, and the Erie mill, at Erie, Pa., which makes sulphite, also buys slabs, and there is more or less competition for these slabs. I stated in Washington that when I was engaged in building a greater part of this mill that they were burning slabs and edgings within one-quarter of a mile of this mill. At the end of the sawmill was a pit, and what slabs they could not burn under their boilers were burned in this pit. We got our slabs at that time for 25 cents a cord. We loaded the slabs on wagons and hauled them to this mill. The actual cost of these slabs, and they were a great deal better slabs than we are getting now, was not over \$1 per cord to us. That was very cheap wood.

The CHAIRMAN. When was that, Mr. Paine?

Mr. PAINE. In 1897. But they ceased burning their slabs. There came a demand for lath, and then our demand increased, and the price of this material has gone up until we are now paying the price that Mr. Myers testified to this afternoon.

The CHAIRMAN. What price did he testify to?

Mr. Myers. About \$5.35 per cord.

The CHAIRMAN. Is that the price of the wood on the cars? Mr. Myers. No; here at Johnsonburg, ready for the chipper.

The CHAIRMAN. This is equal to \$10 per cord for clear hemlock? Mr. Paine. Yes; it is just about what we can land spruce here for. The Chairman. Where can you get spruce at that price?

Mr. Myers. We can get it from the Haliburton district, Ontario, Canada, and costs us about \$10.30 per cord here.

The CHAIRMAN. Can you get any spruce from Quebec at \$10.30?

Mr. Myers. No; we get our spruce from Ontario.

The Chairman. You can not get any spruce from Ontario from the Crown lands. You might be able to get some from private lands.

Mr. Myers. That is where we are getting it from. Practically all the spruce we have received is from Canada, but we have received several carloads from this State.

The CHAIRMAN. This is only a local supply and must be scant.

Mr. Myers. It does not amount to anything.

The CHAIRMAN. What I want to get is all the information I can in reference to forests. How do you figure that the lands which you are holding and on which nothing is growing are profitable to hold?

Mr. Myers. This is problematical and will depend altogether on what our company is willing to do. So far they have always allowed me to spend the amount of money I deemed necessary to keep up our lands. It is a problem for them to figure out whether their business will allow them to engage in reforesting. I have always represented to our company that we can reforest the lands which we now hold, by the method we are pursuing, and a basis of from \$1.90 to \$2.50 per cord of pulpwood. It does not require the same quality timber nor the same size timber for pulp wood as for lumber. As far as we have operated, we have allowed nothing to waste, and I believe when you go over our property with us to-morrow you will be surprised to see the manner in which we cut over our lands. We have one property in Warren County, this State, which we purchased for \$3.50 per acre.

The CHAIRMAN. In what shape was it when you purchased it? Mr. Myers. The lumbermen had cut off all the hemlock and the best hardwood.

The CHAIRMAN. What was growing on it at that time?

Mr. Myers. Principally maple. The CHAIRMAN. How large maple?

Mr. Myers. I suppose from 6 to 10 inches.

The CHAIRMAN. I would not call that land with nothing on it. Have you any land owned by the company which is perfectly barren of trees?

Mr. Myers. Yes, sir.

The CHAIRMAN. Is there anything growing on it but bird cherry?

Mr. Myers. Yes; some with nothing on it but briers. The CHAIRMAN. Do you think that will reforest itself?

Mr. Myers. Yes; I think it will, provided it is protected from fire.

The CHAIRMAN It will be a long time?

Mr. Myers. Yes.

The CHAIRMAN. How much of that land do you have? Mr. Myers. About 10,000 acres of our land is barren.

The CHAIRMAN. Practically the same as what we saw from the railroad?

Mr. Myers. Yes, sir. Even in places where we have a good growth of hard wood, we will get 100 acres or so entirely barren and without any growth.

The Chairman. Have you any large tracts—I do not mean a mere 100 acres, but from 5,000 to 10,000 acres—that are practically barren?

Mr. MYERS. No; not in one body.

Mr. RYAN. Is there any of this barren land suitable for agriculture?

Mr. Myers. No; not very much.

Mr. Ryan. Is the ground stony and craggy?

Mr. Myers. Yes, sir.

The CHAIRMAN. On this other land with the second growth, what is the prevailing timber on that? Hemlock?

Mr. Myers. Hemlock, maple, and beech.

Mr. Stafford. What would be the value of this barren land which is unsuitable for agriculture after it has been stripped?

Mr. Myers. I would not attempt to place a value on it.

know what anyone would want it for except to grow timber.

Mr. STAFFORD. Is there much of that land through the State, outside of the state forest reserves?

Mr. Myers. Yes; thousands of acres of it.

The CHAIRMAN. I suppose, in view of the mineral resources which. have been developed in the past in this State, there is a certain speculative value to the land; no one knows what it might produce.

Mr. Myers. Yes, sir.

Mr. Stafford. Is the speculative value an incentive to persons to carry that land for a great length of time?

Mr. Myers. No; I'do not think so. Mr. Stafford. You are not a real estate man?

Mr. Myers. No.

The Chairman. Do you know when this land was cut over for logging purposes that you have this second growth on now?

Mr. Myers. They finished cutting it just when we made the pur-

That was in 1903.

The CHAIRMAN. Did you purchase it from the parties who cut it over?

Mr. Myers. We purchased it from the owner. He had sold the stumpage to the lumbermen.

The CHAIRMAN. Who was the owner? Mr. Myers. H. J. Jamison, Warren, Pa. The Chairman. Who cut the land over?

Mr. Myers. Doughty Brothers. The CHAIRMAN, And that was in?

Mr. Myers. In 1903.

The CHAIRMAN. Do you know what they cut off?

Mr. Myers. They cut the hemlock and the best hard woods.

The CHAIRMAN. And that is in shape now that you can cut pulp wood and almost cut saw logs?

Mr. Myers. No; we figure on holding that for twenty to twenty-

five years yet.

Mr. Stafford. Do you figure that the land the company now owns is sufficient to provide the company continuously with an adequate supply of pulp wood, for the present capacity of the mill?

Mr. Myers. Yes, sir; I think the land we now hold will almost furnish us with a sufficient supply if properly taken care of.

Mr. PAINE. What tract are you going to take the gentlemen to

to-morrow?

Mr. Myers. I think we will go to Wilcox.

Mr. PAINE. How many acres are in this tract?

Mr. Myers. I always call it our 9,000-acre tract. There is not that much in it, actual survey.

Mr. PAINE. How many cords do you estimate are on that tract?

Mr. Myers. I estimate there are 250,000 cords.

Mr. PAINE. Which would last our soda mills how many years, with-

out figuring on any growth?

Mr. Myers. About five years. You see the way we operate on that tract, it will last a great number of years, probably twenty-five years. We take only the matured timber. We have timber on that tract which is deteriorating.

Mr. PAINE. Why?

Mr. Myers. On account of age. After a tree reaches a certain age, it should be cut, as it will deteriorate from that time on.

The CHAIRMAN. Mr. Myers is correct, as a tree does not gain after it

reaches a certain age. In fact it goes back.

Mr. PAINE. You call that first growth, simply because you do not

know there was any previous growth?

Mr. Myers. Yes. As far as I can see in looking over the territory there has been no hard wood taken off. Of course, the hemlock, cherry, and some ash has been taken off. About twenty-five years ago they took off the cherry, and the hemlock was taken off about the same time. At that time they cut down trees for the hemlock bark only. Most of these trees are still lying there. We have gone over the ground and shipped in several thousand cords which had been lying in the woods twenty-five years.

The CHAIRMAN. Does not this old hemlock rot?

Mr. Myers. We find it does in certain sections. Mr. Armstrong and I cut into these old logs in different sections. In some sections the wood would be fairly sound, while in others it was badly rotted. On our Big Mill Creek property we are shipping in to-day hemlock pulp wood from old timber cut over twelve or fifteen years ago.

The CHAIRMAN. It looks it.

Mr. Myers. Of course, we could get that hemlock to look a little better by going to more expense in the woods, but I leave the mill take care of that part of it.

The CHAIRMAN. What wood you pick off the ground, is that much

wood saved from total loss?

Mr. Myers. Yes, sir. The Chairman. You can afford to go to a little more expense in preparation than you can buy clean hemlock for?

Mr. Myers. Yes, sir.

Mr. PAINE. There is a certain stage of decomposition beyond

which we can not go.

The CHAIRMAN. The Forest Service knows now, or shortly will learn, how to appreciate your efforts, because they have 40,000,000 feet of this hemlock and hard wood piled up in various stages of decomposition, a large share, or a fair proportion, of which has evidently been lying on the ground for years.

Mr. Myers. Last winter we cut hemlock stumps where the lumbermen had cut over six years ago, but found that decomposed beyond our use.

The CHAIRMAN. What do you mean by cutting up stumps?

Mr. Myers. Where lumbermen had cut stumps from 3 to 6 feet above the ground, we went over and cut them down to the ground.

The CHAIRMAN. Hemlock wood that is matured is usually rotten

at the bottom.

Mr. Myers. We found it was not rotten at the bottom, but the

rot had run through.

The CHAIRMAN. A large share of virgin hemlock trees will have dry rot at the bottom. This probably is the reason your stumps were so

badly off.

Mr. Myers. I account for it from the fact that the water would saturate through the stump and then dry off. Going through this process continually the hemlock will rot in a very short time. You probably know that hemlock under water will remain preserved for a number of years, while if you have it where it will become watersoaked and then dry off continuously it will soon rot.

### STATEMENT OF A. G. PAINE, JR., SECOND VICE-PRESIDENT AND GENERAL MANAGER OF THE NEW YORK AND PENNSYLVANIA COMPANY.

The CHAIRMAN. Will you describe the soda process for the record. Mr. Paine?

Mr. Paine. The first process is to chip the peeled wood into small

chips.

The CHAIRMAN. You do not ross any of your wood here?

Mr. Paine. No, sir.

The CHAIRMAN. Either for sulphite or soda?

Mr. PAINE. No, sir. The next step is to screen the chips by passing them through revolving or shaking screens, whereby the fine particles of wood and dirt are removed, and the large pieces that are too large to be properly cooked are returned to the chipper or a shredding machine to be cut up finer and rescreened.

The Chairman. When you say small particles are screened out and

dirt, you mean sand, dirt, and sawdust?

Mr. Paine. Yes, sir. The Chairman. You aim to leave in everything that is over oneeighth inch or even smaller?

Mr. PAINE. Yes, sir.

The CHAIRMAN. Your average chip would be the same size, or a trifle smaller, or about half the size of those used for sulphite? Your chips would average probably one-half or three-fourths inch?

Mr. PAINE. About three-eighths to one-half inch. I am now

describing the process at this mill—the soda process.

The CHAIRMAN. Then anything that is over one-half inch, or such

a matter, is that returned for finer cutting?

The chips are then conveyed to digesters. The Mr. PAINE. Yes. size of the digesters at this mill are 7 feet in diameter and 29 feet long. They are upright digesters and stationary. It is very important to have the digesters free from rivets, and they are what are known as welded digesters. The chips are run into the tops of these digesters, and at the same time caustic liquor is put into the digesters with the

chips, about 4,200 gallons of 1111 for 12 degree caustic soda, Baumé test, at 60° F. When the digester is full the manhead is secured and steam is turned on. The caustic soda is circulated by steam injectors and the pressure is run up to 125 or 130 pounds. wood is cooked six to eight hours, according to the dryness of the The drier the wood, the more rapidly it absorbs the caustic The caustic soda enters the chips at their ends and follows the fiber. If the chip contains moisture the pressure of the moisture retards the absorption of the liquor, and the cooking process is necessarily longer. To maintain a constant circulation the pressure on the digester is relieved from time to time by blowing off. When the cook is completed, a valve at the bottom of the digester is opened and the contents are discharged under pressure into a suspended receiving The steam escapes through a vent at the top of the tank, and the pulp and liquor fall to the bottom. When the digester is discharged, the valve is closed and the cooking operation ends. The contents of the digester, which are then in the blow-off tank, are dropped into a wash pan. This wash pan is equipped with a perforated bottom, and the liquor drains from the pulp through this perforated bottom. Weak hot liquor is sprayed on the top of the pan and percolates down through the pulp. Following this weak hot liquor, hot water is used, and by this method the intercellular matter which is in solution drains away from the pulp, carrying with it the soda. I will describe later the treatment of the liquor.

The Chairman. What color is this when it first comes out of the

digester?

Mr. Paine. A very dark brown—almost a black.

The CHAIRMAN. Caused by what?

Mr. PAINE. Caused by the action of the caustic soda on the intercellular matter.

The CHAIRMAN. That is, the caustic soda burns the intercellular

matter into a charcoal which affects the color?

Mr. Paine. I do not think it burns it. I am not prepared to state what chemical action takes place. It affects the color of it, however. The caustic soda has the same action on the intercellular matter in wood that alcohol has on shellac—it dissolves it. After the pulp is thoroughly washed in the wash pans it is then hosed out into stuff chests.

The CHAIRMAN. What do you mean by hosed out?

Mr. PAINE. There is a gate valve at the bottom of each wash pan. That gate is opened and the pulp is forced out through the gate by a head of water delivered through a hose nozzle.

The CHAIRMAN. This pulp in the wash pans is rather a thick sub-

stance

Mr. PAINE. As thick as a porridge; and we turn water on it.

The CHAIRMAN. You turn water on it to thin it?

Mr. Paine. Yes, so that the pump will take it. It is hosed out in a comparatively thick condition to the stuff chests. From these stuff chests it is pumped out onto suction diaphragm screens. These screens are equipped with gun metal or brass plates, which contain fine slots. Under the brass plates are vibrating diaphragms, which lift and suck as they move up and down on cams. This draws the

fine fibers through the slots. Any undigested matter and coarse dirt are retained on top of the screen plates, the fiber passing through. This is called screening. In order to screen the fibers it is necessary to use a very large amount of water, and the pulp flowing away from the screens is what is called thin, a very small amount of pulp to a large amount of water. This surplus water is removed by feltless wet machines, which consist of cylinders revolving in vats, the water being removed through the center of the cylinder, and the pulp forming on the outside of the cylinder is removed with doctors or blades, and in some cases with a current of air.

The pulp is then conveyed from these wet machines to bleachers, where it is bleached by the introduction of chlorine, the solution testing from 3½ to 4 degrees Be. at 60 degrees F. This bleaching process requires a treatment of from four to six hours, and the pulp then passes into drainers, where any chlorine remaining is washed out with clear cold water. The pulp is then ready for the paper mill.

The liquor containing soda and the intercellular matter, which is drained from the wash pans, is pumped to a multiple effect evaporator, where it is boiled down from an average of 9½ degrees Be. at 60 degrees F. to 38 or 40 degrees at the same temperature, and is when boiled down of the consistency of hot pitch. From the multiple effect evaporators it is pumped into revolving furnaces. These furnaces wary from 8 to 12 feet in diameter and from 14 to 18 feet in length. They are lined with brick and revolve slowly. The thick, tarry liquor smears over the inner surface of these furnaces and is fired by heat generated in a fire box located at one end of the rotary. By this process the intercellular matter is burned or charred. A large part of it is burned to an ash, but it is only necessary to thoroughly char the intercellular matter so as to make it insoluble in water.

What causticity remains in this liquor by the time it reaches this part of the process disappears through the carbonizing effects of the combustion, and the resultant ash discharged by this rotary consists of charcoal and carbonate of soda. The black ash, as it is called in the trade, is then conveyed to leaching tanks and put through what is known as the diffusion system; that is, a series of tanks are filled with black ash, and hot water is introduced and circulated from one tank to another. The charcoal being insoluble and the soda ash soluble, the latter is removed from the charcoal and passes out as a clear liquid. Hot water is again introduced, so as to thoroughly wash out all traces of soda from the charcoal. The resultant liquid is then pumped to causticizing tanks, where it is causticized by the introduction of freshly burned caustic lime. It takes 50 pounds of caustic lime to causticize 100 pounds of soda. is made about 98 per cent caustic. By this process, which is known as the recovery process in the soda fiber manufacture, from 84 to 90 per cent of the soda ash is recovered. That which is lost is made up by the introduction of fresh soda.

The CHAIRMAN. What is this fresh soda! How do you get that!

What do you use?

Mr. PAINE. At this mill we make our own soda, as well as our chlorine, by electrolysis.

The CHAIRMAN. How is this done?

Mr. PAINE. These chemicals are made up by passing an electric current through a saturated solution of common salt, which is decom-

posed. The caustic soda flows away from the cell, the chlorine gas being drawn off by a slight vacuum to absorbing towers.

The CHAIRMAN. You manufacture here soda fiber, sulphite, and

various kinds of paper?

Mr. PAINE. Yes, sir.

The Chairman. At this mill do you manufacture sulphite for sale? Mr. Paine. No. sir.

The CHAIRMAN. Do you manufacture any soda fiber for sale?

Mr. PAINE. Yes, sir.

The CHAIRMAN. Do you consume the most of your soda fiber in this mill?

Mr. PAINE. Yes, sir.

The CHAIRMAN. How does soda fiber and sulphite compare, of the kind you make here, in the market in value?

Mr. PAINE. At the present time there is about 35 to 40 cents per

100 pounds difference in favor of the bleached sulphite.

The CHAIRMAN. The soda fiber you make here is made in the main from hard wood?

Mr. PAINE. At this mill; yes, sir.

The CHAIRMAN. You use some hemlock which is not of the first quality?

Mr. PAINE. Yes, sir.

The CHAIRMAN. The soda fiber that you make from hard wood is of a different character from the soda fiber that you make from other kinds of wood?

Mr. Paine. Yes, sir.

The CHAIRMAN. This soda pulp does not have a long fiber?

Mr. Paine. No, sir.

The CHAIRMAN. But is more or less used for mixing with sulphite in the manufacture of various grades of writing paper, book paper, and other kinds?

Mr. PAINE. Yes, sir.

The CHAIRMAN. What is the difference between soda fiber made from hard wood and soda fiber made from poplar, cottonwood, or even clear hemlock?

Mr. PAINE. The soda fiber made from poptar is slightly longer, the fibers in the poplar being longer than the fibers in these hard woods.

The CHAIRMAN. Is it a matter of fact that the fiber in cottonwood is really longer than that of hard wood?

Mr. PAINE. Yes, sir.

The CHAIRMAN. Do you chip cottonwood as closely as you do hard wood?

Mr. PAINE. No, sir.

The CHAIRMAN. Is not that the reason, that in order to allow the caustic soda to follow up the fibers in the hard wood, where the wood is very compact, you require to cut it much shorter than you would soft wood?

Mr. PAINE. We undoubtedly cut up many fibers by cutting the wood shorter, but the fact is that the fiber in its natural state in

cottonwood is longer than the fiber in hard wood.

The CHAIRMAN. Whatever may be the fact about that, you may be right, but I am not sure that soda fiber made from hard wood is shorter than soda fiber you make from poplar, or cottonwood.

Mr. Paine. It is slightly shorter, not so much so but that it would require an expert to tell the difference between the fiber we make from all poplar at one of our mills, and that made from hard wood at this mill. We have to admit that you can not make very good paper out of some soda fiber by itself, simply because it has not enough strength, but you can make out of some soda fiber excellent paper, not, however, from short-fiber wood. Poplar is a short-fiber wood.

The CHAIRMAN. What kind of wood is it you use to make this paper

that is of great tensile strength?

Mr. PAINE. Jack pine.

The CHAIRMAN. Is that the only kind?

Mr. PAINE. Spruce makes a long-fiber pulp by the soda process, but spruce can be used to a better advantage by the sulphite process. Jack pine can not be cooked by the sulphite process.

Mr. Stafford. Is it economically possible to manufacture pulp out

of sawdust?

Mr. PAINE. Not that I know of.

The CHAIRMAN. Do you think sawdust has sufficient length fiber to

make any kind of reduced paper fiber in any way?

Mr. Paine. I think you could succeed in making pulp from sawdust, but I do not think it would be a practical process, and the fibers would be very much shorter than if the same wood had been cut into chips.

The CHAIRMAN. I think you could make pulp out of it in the same way and on the same principle you would make flour. Do you think

it could be used?

Mr. PAINE. It would be useless.

The CHAIRMAN. It might be used as a filler, but it would not be as

good or as cheap as clay?

Mr. PAINE. It would not be as cheap as clay. It would not give as good a color, and would not be nearly as cheap as clay; so there would be no object in making it.

The CHAIRMAN. You spoke, by the way, of having your soda

digesters free from rivets. What is understood by that?

Mr. Paine. The action of the soda liquor, in connection with the intercellular matter, on any riveted joint is very severe. Soda is a cleansing liquid and it will cut out between a joint created by bringing together two pieces of steel or iron. What makes a steam boiler tight is the corrosive action of the water on the plates and joints, and it does not depend altogether on the calking; even in many cases where a boiler leaks it will finally take up by this corrosive action and the leak stop itself. Now, in the digesters that are riveted the constant expansion and contraction of two plates riveted together keeps the crack open sufficiently for the caustic soda to enter and to finally leak through, and the minute it blows out through the rivet holes or joints you have a leak that you can not stop. In the early days, before the process of welding metals was perfected, our digesters were all riveted, and we had to replace them every few years at great expense. Furthermore, we had to work on them constantly.

Mr. Stafford. As to the description you have just given us of the process of soda-fiber making at this mill, is not this the same in general followed by other mills in other parts of the country where they

make soda fiber?

Mr. Paine. Yes, sir.

The CHAIRMAN. That is, largely the same?

Mr. Paine. Yes, sir.

The CHAIRMAN. You spoke a while ago of taking the liquor out of the digesters into suspended tanks. What do you mean by suspended tanks?

Mr. PAINE. I mean a tank elevated above the wash pans.

The CHAIRMAN. What is the reason for having this tank in that position?

Mr. PAINE. Merely one of convenience.

The CHAIRMAN. In order to allow your liquor and pulp to run by

gravity?

Mr. PAINE. Having a pressure on the digesters, it costs nothing to blow the pulp to a reasonable height, and having it once in that position we can drop it into the wash pans without going to the expense of pumping it.

The CHAIRMAN. There is no other object in having the tank sus-

pended, so that you have it the right height?

Mr. PAINE. That is all.

The CHAIRMAN. What is the capacity of your mill here?

Mr. PAINE. Seventy-five tons of soda pulp, 35 to 40 tons of sulphite, and 100 tons of paper per day.

Mr. RYAN. That is, every twenty-four hours? Mr. PAINE. Yes, sir.

The CHAIRMAN. What kind of papers do you produce?

Mr. PAINE. Machine-finish book papers, super calender book papers, tablets, writing, envelope, writing manilas, lithograph, label, alkali proof, cover papers, and coating papers.

The CHAIRMAN. What are coating papers?

Mr. Paine. Papers that are to be subsequently coated.

The CHAIRMAN. What is coating?

Mr. PAINE. Coating is a process of placing a solution of clay and casein on the surface of the paper.

The CHAIRMAN. For what purpose is that done?

Mr. PAINE. For fine printing, especially half-tone work.

The CHAIRMAN. Does it make a smooth paper? Mr. PAINE. It produces a glossy, smooth finish.

The CHAIRMAN. You speak of writing manilas; that is the same as railroad manilas?

Mr. PAINE. Yes, sir; with the exception that some railroad manilas

contain ground wood, while we do not use any of this article.

The CHAIRMAN. About what proportion of sulphite to soda fiber do you use in the manufacture of your papers? You manufacture about twice as much soda fiber that you do sulphite per day. About what proportion do you use in your paper?

Mr. PAINE. On the average I should say we use about half and half,

a little more sulphite than soda.

The CHAIRMAN. Of the character of the two fibers which you make here, the more sulphite you put in the paper is the paper a little stronger?

Mr. Paine. Yes, sir.

The CHAIRMAN. That is, the tensile strength is greater?

Mr. PAINE. Yes, sir. The sulphite is the skeleton and the soda is the body.

The CHAIRMAN. The soda has largely to do with the finish?

Mr. PAINE. Yes: the soda makes a compact sheet and fills up the pores, gives a smooth surface, and makes a printable sheet.

The Chairman. You could make a smooth sheet of wrapping from

sulphite?

Mr. Paine. Yes, sir.

The Chairman. Does it make a good printing surface or writing surface?

Mr. PAINE. It makes a fair writing surface, but does not make a good printing surface.

The CHAIRMAN. When you bleach the fiber it affects only the color,

and no other quality of the fiber?

Mr. PAINE. Its action on the fiber is to change the color and it also improves it by softening it.

The CHAIRMAN. But otherwise, it has no ill effect?

Mr. Paine. No, sir. Mr. Ryan. In speaking of soda fiber what effect has that on paper as distinguished from wrapping paper?

Mr. PAINE. It makes a compact soft sheet which meets the require-

ments of a good sheet of printing paper.

The CHAIRMAN. Do you use some clay in connection with your soda fiber?

Mr. PAINE. Yes, sir.

The CHAIRMAN. Do you know whether you use as much clay in the paper you make from soda and sulphite as they do in the paper made from sulphite and ground wood?

Mr. PAINE. We use a great deal more where we use soda and sul-

phite, because we make a different quality of paper.

The CHAIRMAN. Do you use much sizing in your papers? Is all the paper you make sized?

Mr. PAINE. Yes; all, except what is known as water leaf.

The CHAIRMAN. What is water leaf?

Mr. PAINE. Paper made without sizing. It is nearly as absorbent as a blotter. We have a call for some of that paper.

Mr. RYAN. For what is that used?

Mr. PAINE. A great deal of it is used for photographic purposes, but I do not think that much of what we make is used for that purpose. It is also used for some forms of printing.

The CHAIRMAN. What is the market price of this paper, book and

print, that is made from sulphite and soda?

Mr. PAINE. It depends largely on the packing, the weight of the paper, and the process it is to be subjected to at the mill. Take, for example, an antique M. F., a low machine-finish paper in rolls of good weight, this would sell to-day at from 31 to 33 cents per pound.

The CHAIRMAN. That is about the cheapest you make?

Mr. Paine. Yes, sir.

The CHAIRMAN. Then you can add to that the finishing?

Mr. Paine. Yes, sir.

The CHAIRMAN. Then you add to that cost for supercalendering? Mr. Paine. Yes, sir. We charge 25 cents extra for our supercalender paper. That is our usual charge. Some mills add 30 cents, others 35 cents, and sometimes on very desirable orders, paper of good weight, they charge as low as 20 cents per 100 pounds, but the customary price is 25 cents per 100 pounds for supercalendered paper. Our average cost of supering at this mill is about 22 cents per 100 pounds for all classes of supering, so that we are paid simply the extra cost of supering the paper.

The CHAIRMAN. I take it, it would be wholly out of the question at the present time to use soda fiber for the manufacture of news

print 8

Mr. PAINE. Yes, sir.

The CHAIRMAN. If the supply of spruce should be exhausted, there is at the present time, as far as you know, no other kind of tree which would take its place for the manufacture of ground wood?

Mr. Paine. No, sir.

The Chairman. And if the supply of soruce should be exhausted——Mr. Paine. Do you class balsam with spruce, as a large amount of balsam is used in——

The CHAIRMAN. I am told that no balsam is used in the manufac-

ture of ground wood.

Mr. PAINE. A considerable quantity, but a small percentage of the total is used; but where they make good ground wood some mills will not use it at all.

The Chairman. So that if the supply of spruce should become exhausted, it would probably force the manufacturers of news printing paper to the soda process, because by the soda process you can

use almost anything?

Mr. Paine. Yes, sir; but I should not say force, though I do not know what else they would fall back on. I do not know what other fiber they could use. They use unbleached sulphite in print papers, and of course they could increase the consumption of sulphite; but most sulphite for news papers when used in its unbleached state is made from spruce. If made from hemlock, the hemlock would not last long, and the hemlock, being darker in color, would have to be bleached slightly. It does not make as bright a color as spruce sulphite.

The CHAIRMAN. You say the soda fiber is a very costly fiber to make. Why should it be so costly? With the sulphite you have to buy sulphur, and when the sulphurous acid is exhausted you have to throw it away. You buy a little salt—common table salt, which is extremely cheap—and you get your bleach out of it, and you get your caustic soda out of it, and when you use it you save it and use it over and over. Probably some that you are using now you used

ten vears ago.

Mr. Paine. The cost of recovering soda, plus the cost of fresh ash used to take the place of that which is lost, costs more than the sulphurous acid, which is thrown away. In other words, you can buy brimstone, at the present market price, at \$22 per ton and make sulphurous acid and throw it away after using cheaper than you can use soda, buy the soda you do not recover, plus the cost of recovering the soda.

The Chairman. You use a large amount of clay, do you not? Why could you not use clay and sulphite instead of soda and sulphite?

Mr. PAINE. We could not use clay and sulphite. We could not hold enough of the clay in the sheet. After the fibers hold 20 per cent of the clay used it would flow away from the machine. You could prob-

ably use 75 per cent sulphite and 25 per cent clay, but it would make a thin sheet. It would not be a sheet of newspaper.

The CHAIRMAN. You speak of sulphur as brimstone?

Mr. Paine. Yes, sir.

The CHAIRMAN. Where do you get your sulphur from—this country or abroad?

Mr. Paine. From both places.

The CHAIRMAN. What do you have to pay for it?

Mr. PAINE. A year ago we made a contract for our supply at \$19 per ton. That was in 1907. The market price in 1908 and for 1909 is \$22 per ton.

The CHAIRMAN. Is the market price the same for Louisiana that it

is for Sicilian sulphur?

Mr. PAINE. Yes, sir.

The CHAIRMAN. You can buy it just as cheaply whether it is American or Italian sulphur?

Mr. Paine. Yes, sir.

The CHAIRMAN. Is there a combination among the sulphur people?

Mr. PAINE. I could not say.

Mr. Stafford. Do you know whether there is any difference in the freight rate from Sicily to New York and the freight rate from Louisiana fields to New York?

Mr. PAINE. I do not know what these freight rates are. We buy

the sulphur ex-dock.

Mr. Ryan. These are the only two sources of supply?

Mr. Paine. Yes.

The CHAIRMAN. Do you have any question as to the supply of pulp wood in this locality in the future?

Mr. PAINE. How far in the future, Mr. Mann?

The CHAIRMAN. Indefinitely.

Mr. Paine. Not if we are prepared to spend the amount of money

necessary to conserve our supply.

The CHAIRMAN. Of course, if you are prepared to spend the money; but do you think an individual company is able to spend the money in reproducing the forests, paying taxes, expenses of protection, etc.? Mr. PAINE: I think they are, if they can get a sufficiently remuner-

ative price for their manufactured goods.

Mr. Stafford. When you feel secure as to your supply, you are not taking into consideration a disastrous fire that may come, no matter what protection you take, which would destroy your forests entirely?

Mr. Paine. Of course, if we have a fire of that kind; but that is

not likely, the way we are operating in the woods. Fires, as a rule, do not run in what we call first-growth timber They stop there.

Mr. RYAN. With the present rate of taxation that you pay, making your own provision for fire protection, do you believe you could

profitably reforest the land?

Mr. PAINE. It would all depend on the price we could get for our You can readily see that wood lands bought at \$3.50 per acre and carried for twenty years-

Mr. Myers. It would cost from \$30 to \$40 per acre in thirty years. Mr. PAINE. And if that wood is held for that length of time, it fol-

lows that it is much more costly wood.

Mr. RYAN. How much do you expect to obtain from an acre, in cords?

Mr. PAINE. That depends entirely upon the location and the growth. I think we could get from some of our lands 20 cords to the acre, and other lands will run as high as 60 cords to the acre.

Mr. Myers. Not in thirty years. I figure that in thirty years an

acre will produce about 15 cords.

Mr. Ryan. Where you are now reforesting?

Mr. PAINE. I think you mean the wood that is pretty well grown. For example, we have tracts that we could cut over to-day that we do not propose to touch for ten years.

Mr. RYAN. In that estimate, do you figure anything for fire pro-

tection?

Mr. Myers. We are not prepared to say just what it is going to

The CHAIRMAN. As a matter of fact, you have not cut over any second-growth timber that you own?

Mr. Myers. No; we have not.

The Chairman. You do not know from experience what it will cost?

Mr. Myers. No. sir.

Mr. Stafford. What policy do you pursue in fire protecting your lands?

Mr. PAINE. During the dry season we patrol our lands.

Mr. Stafford. To what extent or what expense is the result of

that patrol per acre?

Mr. PAINE. That is a very hard question to answer, because on some of our tracts we have a few men cruising during the dry season, and, again, on adjoining tracts that have been lumbered over, where they leave old tops which are dry, there may be a railroad near that tract which has been cut over, and this may become a serious proposition.

The CHAIRMAN. Do you have any railroads running into your

tracts?

Mr. PAINE. Yes, sir.

The CHAIRMAN. Do you operate these during the dry season?

Mr. Paine. No, sir.

Mr. Ryan. Do you have any laws in the State of Pennsylvania which provide for the destruction of slashings, etc.?
Mr. Paine. No, sir; I do not know of any.

Mr. Ryan. There should be.

Mr. PAINE. Yes, sir; there should be.

The CHAIRMAN. What about the tariff on paper, sulphite, etc.? Do you meet any special competition with Sweden in the production of sulphite?

Mr. PAINE. Yes, sir. The CHAIRMAN. How?

Mr. Paine. Through the importation of their pulp products. The Chairman. They export to us sulphite and sulphate? there much sulphate coming over?

Mr. PAINE. Quite a large amount.

The CHAIRMAN. There has been a large amount of sulphite imported during the last year at very low prices?

Mr. PAINE. Yes, sir.

The CHAIRMAN. Do you know how low it is being sent in here; I'do not mean special lots, but the general run?

Mr. PAINE. I should say at the present time you can buy imported sulphite, of a grade fully equal to our best domestic unbleached, at from \$1.85 to \$1.95 per 100 pounds.

The CHAIRMAN. This is nearly as cheap as ground wood is now

being sold for?

Mr. Paine. Yes, at the moment; but this is an unnatural condition as to ground wood, due to water famine.

The CHAIRMAN. What is the occasion for these offerings of Swedish

sulphites and sulphates, etc., at such prices?

Mr. PAINE. I can only answer that from the information I get in talking with Europeans and their representatives here. They tell me that business in Norway and Sweden has been very dull and there is an accumulation of sulphite and sulphate pulps over there, and in a desire to maintain prices in the home markets they are getting rid of their surplus pulps by dumping them into this country.

Mr. RYAN. Are these sold in this country under contracts, or sent

to be sold in the open market at best prices?

Mr. PAINE. Both.

The CHAIRMAN. If the tariff were taken off sulphite and the Swedish sulphite would be sold for that much less than it is now being offered at, could American manufacturers meet that competition?

Mr. PAINE. No; not at the present manufacturing cost.

The CHAIRMAN. Why can not we do it just as well as they do it in Sweden?

Mr. PAINE. Because our labor is very much higher and nearly everything we use more costly in this country than abroad; not everything, but nearly everything.

Mr. RYAN. If the tariff were taken off everything you use in connection with your products, would you then have any fear of

competition if the tariff were taken off foreign sulphite?

Mr. PAINE. If we have absolutely free trade in this country, no; we could hold our own.

The Chairman. Do you mean by that a reduction in wages?

Mr. PAINE. Yes; certainly. Not merely free trade in the articles which we use, but a reduction in the wage scale. That would follow with everything if we had free trade.

Mr. Ryan. You mean a reduction in everything that you use!

Mr. Paine. Yes; nearly everything. My experience has been, and I have been a laboring man myself, that the American workman is accustomed to live a different sort of life to that of the European. I have been in Scottish mills and in English mills, and our manager here has been brought up in German mills, but our American workman demands a great deal more than the European, and it is a question whether he would adapt himself to a European level without a treme dous struggle.

The Chairman. Suppose the tariff should be taken off sulphite, you do not enticipate that this mill would close up and go into receiver-

ship, would you?

Mr. PAINE. I do not think so, but a good many mills would, as they

are running on very close margins.

Mr. RYAN. Eliminating the question of labor, if the tariff were taken off, and you would get the benefit on everything that you use, would you then be able to compete with the foreign mills?

Mr. PAINE. No: not without a reduction in the price of labor.

The CHAIRMAN. What wages do you pay here now for men such as machine tenders?

Mr. PAINE. I offered in Washington an absolute copy of our pay

roll, and this is in the record.

Mr. Ryan. Were you in business here when the present tariff went into effect?

Mr. PAINE. Yes, sir. The Dingley bill went into effect in 1897, did

Mr. RYAN. Was there any additional protection given to this industry in the Dingley bill?

Mr. PAINE. I do not think so. There may be a slight difference. Mr. RYAN. Did the passage of the Dingley law have any effect on

the wages in your mill?

Mr. PAINE. Our wages have been going up ever since then, and

they are at the highest point now.

The CHAIRMAN. Would the removal of the tariff on ground wood, which you do not use in these mills here, in your opinion, have any effect upon the manufacture of the kind of paper which you produce?

Mr. PAINE. Yes; it would. The CHAIRMAN. How?

Mr. Paine. Why, we are meeting constantly with competition with what we call adulterated papers. These are termed book papers, made with a percentage of ground wood, but only a small percentage is used which is not detected, but the adulterous effect of the ground wood is there and the paper loses its color, yet it answers the purpose. The railroad manilas contain more or less ground wood.

Mr. RYAN. Do you come in contact with Canadian sulphite or

ground wood?

Mr. PAINE. Yes, sir.

Mr. Ryan. To any great extent?

Mr. PAYNE. Yes, sir. Mr. RYAN. What percentage, if you have that information, of the amount of sulphite and ground wood that is used in this country is imported?

Mr. PAINE. I could not give you that.

Mr. Ryan. Is it not considerable portion?

Mr. Paine. Yes, sir.

Mr. Ryan. That is an unusual condition, is it not?
Mr. Paine. The importations have been large. I have some figures taken from the records that show that there was more sulphite imported in 1906 than in 1907, but I have not the figures for 1908.

Mr. Ryan. You have no idea what the percentage is?

The CHAIRMAN. We have published figures down to June, 1908, and will shortly publish figures both as regards importations and exportations for all the world.

Why is it they can produce sulphite so much cheaper in Sweden

than they can here?

Mr. PAINE. Principally an item of labor.

The CHAIRMAN. They produce a better grade than they do in this country?

Mr. Paine. Yes, sir.

The CHAIRMAN. More or less of the sulphite imported is actually necessary for use in this country?

Mr. PAINE. Yes, sir.

The CHAIRMAN. That is, we produce no article that quite takeits place for some grades?

Mr. Paine. No, sir.

Mr. RYAN. Is not that one of the reasons why they have been importing such large quantities in this country?

Mr. PAINE. Yes, sir.

The CHAIRMAN. Do you know how large forests there are in Sweden to supply the large number of mills?

Mr. PAINE. No; I do not.

The CHAIRMAN. Do you know how large a country Sweden isthe forest area?

Mr. PAINE. No; I do not.

The CHAIRMAN. Don't you have an idea that the country over there will be the same as it is here if they keep on multiplying the mills as they have?

Mr. PAINE. I should say it would. They are getting some of the

wood from Russia now for the German mills.

Mr. Stutz. Also from Finland. Finland is full of woods—beau-

tiful woods.

Mr. PAINE. I think one tendency would be, in taking off the duty, to compel the mills who are anxious to take care of their supply, and husband it, to abandon that expensive policy, and get what they could out of it as quickly as possible.

The CHAIRMAN. That would keep the price of paper down and use up the Swedish forests, too. With the timber of our country rapidly becoming exhausted, is it not just as well to get some of our forest

supply from other countries that have a superabundance?

Mr. PAINE. If you bring us into a desperate struggle with the Europeans, you would undoubtedly succeed in reducing prices, but would prevent any money being spent to conserve our supply here.

The CHAIRMAN. Take, for instance, your case, and I think you are entitled to great credit for what you are doing, but you are not plant-

ing any new forests.

Mr. PAINE. No; because nature is planting better than we can. The Chairman. Nature is planting a great deal cheaper than you could, but not as well.

Mr. Paine. Possibly not as well.

The CHAIRMAN. You are expecting to carry that forest until it reproduces, which itself is an expensive proposition, subject to a liability all the while, in order to make sulphite and soda fiber. Would you not be just as well off if at less cost you could produce the sulphite and soda fiber delivered here from Sweden, and make your

paper from that?

Mr. PAINE. If we could buy Swedish pulp and shut down our own mills here and dismantle them, and buy Swedish pulp at less than it costs us to manufacture it, and be sure that would continue for a long time, we would be better off; but just as soon as you put these mills out of business here, up goes foreign prices, and you would be dependent on foreigners, and probably be worse off than we are now in the end. If you could guarantee that we get our pulp at less than it costs to make it here, it would be a business proposition.

The CHAIRMAN. But these mills which are accessible to cheap

pulp wood would not be required to dismantle.

Mr. PAINE. Probably not all of them.

The CHAIRMAN. If you should dismantle your mill, buying your fiber at less than it costs you to make it, meanwhile your forests are growing up, and in a few years are valuable, and you can again manufacture sulphite and soda fiber at a small cost here.

Mr. PAINE. That is a delightful idea, but it would not work out. The CHAIRMAN. You say it would not; why?

Mr. PAINE. In the first place, you could not take these mills, shut them down and hold them idle for a number of years. They would go all to pieces, and they are very costly. You have to rebuild a sulphite mill every eight or ten years. The repairs are very heavy.

The CHAIRMAN. It is not so expensive to keep up a soda mill?

Mr. PAINE. I have argued this point with both soda manufacturers and sulphite manufacturers. Some claim a soda mill disintegrates more rapidly than a sulphite mill, but there is not much difference.

The CHAIRMAN. Without regard for the moment to your personal interests, or rather the interests of your company, would it not, on the whole, be just as well for the country at large to exhaust the superabundant forest supply of other countries rather than annihilate our own forests?

Mr. PAINE. My answer to that would be that the entire pulp industry of the United States, using only about 1.6 per cent of the cut wood, should not be sacrificed to perpetuate that small percentage of forest area.

The CHAIRMAN. I suppose they would be looked at the same as lumber interests. You mean more than 1.6 per cent, by the way.

Mr. PAINE. Not much more.

The Chairman. Probably two or three times as much. Mr. Paine. It is not much more than 2 per cent. But the difference is very largely with the way lumber operations are conducted in regard to matured timber, which is not increasing in value a dol-A forest that is matured is no better off a hundred years from now than it is at present. It is no detriment to cut it after it reaches this point. You know, Mr. Mann, that the spruce-wood forests in Maine, if allowed to grow up undestroyed, do not become very large anyhow. It is a small growth, and in Canada it is even smaller.

The CHAIRMAN. In Maine they tell us they do not get more than

The northwest spruce is even smaller.

Mr. RYAN. Might I not suggest that you take up a line of question

in regard to wood on Canadian lands?

The Chairman. What effect would it have on manufacturers of ground wood, from which pulp and paper, etc., is made, if they could get their pulp wood without any restrictions? As it is now, you can not get pulp wood from Ontario, from crown lands or public lands. Provinces own nearly all pulp-wood lands, and they will not export it. Quebec does permit its export.

Mr. PAINE. A large portion of the spruce wood comes from Ca-

nadian lands owned and controlled by American mills.

The CHAIRMAN. That is all from Quebec. A considerable portion of that is owned by mill companies outright. A large proportion, however, is only stumpage which they buy under certain restrictions.

Mr. Myers. There is a large number of veteran claims in Ontario

where they export the wood. You can go along the T. & N. O. R. R. and find a large amount of wood cut now.

The CHAIRMAN. Where do they bring it to? What section of the United States?

Mr. Myers. I understand the mills at Erie have contracted for their entire supply for this year, possibly 50,000 cords. There is more or less of it taken out of the northern section of Ontario. At least that was what we were informed.

The CHAIRMAN. Where does that come from? Mr. Myers. It comes from north of Cobalt.

The CHAIRMAN. Who gets it out? Do you know?

Mr. Myers. I could tell you. I have this information at the office. Palmer and Place get out considerable wood, and they are located at Earleton. Over on Lake Superior, the Northern Pulp Wood Company, located at Detroit, are also getting out considerable wood.

The CHAIRMAN. Are they getting wood from Ontario?

Mr. Myers. Yes, sir.

Mr. Paine. That does not come from Crown lands. It comes from veteran claims, of which whole townships are taken up. Take our mill at Willsboro, N. Y.; we have been operating there for twenty-five years, and there is more poplar wood there to-day than when we started.

The CHAIRMAN. Do you mean aspen?

Mr. PAINE. Yes, sir.

The CHAIRMAN. Is that the only wood you are using?

Mr. Paine. Yes, sir.

The CHAIRMAN. I know of that poplar. It is of no use at all.

Mr. PAINE. It certainly is of use to us and is of great value to the farmers through that section. It grows all over the North.

The CHAIRMAN. It grows all over the Northwest. They hardly use

it for anything.

Mr. PAINE. We are using it. We are using about 75,000 cords per year of that wood. This is what is known as the "Northern poplar," which is the aspen. It is a beautiful tree to look at. It is not unsightly.

The Chairman. It is a beautiful tree to look at when there is any

wind, but it is a homely looking bark at the best.

Mr. PAINE. You seem to have a grudge against that tree.

The CHAIRMAN. I have seen it grow by the millions from the East to the Rocky Mountains. It will grow where nothing else will grow,

and rarely grows large.

Mr. PAINE. Here is an industry where we are using wood which you say is worthless; at the same time the wood costs the three mills on the D. & H. from \$7.50 to \$8 per cord delivered, and that revenue goes to the farmers who cut the wood. It does not grow in large tracts. We make a contract with one farmer to deliver 25 cords, another farmer to deliver 50 cords, and so on, and he cuts the wood in the early spring when the sap starts to run, when the bark will spud easily, and then he spuds the bark off with a spudding knife, and the next winter he saws the wood and delivers it on snow, and is a source of income to all that section.

The Chairman. That was the main argument which was advanced at the time of the introduction of the McKinley law, that the cotton-wood afforded farmers an opportunity to make money by furnishing pulp wood. That was many years ago and the amount of cottonwood

being used is constantly decreasing.

Mr. Paine. No; the production of soda pulp is constantly increas-

The CHAIRMAN. Yes, and the quantity of poplar is decreasing.

Mr. PAINE. I think you are mistaken. The CHAIRMAN. We have the data.

Mr. PAINE. I do not think that data is correct. There is more

soda pulp being made to-day than ever and using all poplar.

Mr. Ryan. Then, can poplar wood be used all for that purpose?

Mr. Paine. Yes; certainly.

The Chairman. Yet it is not. Would you be good enough to furnish us samples showing the various stages of the process of the manufacture of soda fiber in this mill; also disks of some of the trees, both here and the poplar trees at the other mill, that you use; disks cut across the wood?

Mr. PAINE. Yes, sir. With the bark on?

The CHAIRMAN. The bark makes no difference.

Mr. PAINE. In regard to these samples which you would like. I will make up a series of glass jars with removable corks—one glass jar containing chips, one containing pulp with liquor in it, and one with the liquor out, all the jars being labeled describing what they contain. We will send you the whole business.

The Chairman. I do not want any caustic soda in it unless you

label it.

Mr. PAINE. I want to correct in your mind your opinion that there

is not as much poplar wood used now as formerly.

The CHAIRMAN. That data is published by the Census Office, based upon the report on the pulp and paper manufacturers. I do not

know of any better way of getting at it.

Mr. PAINE. I can show you why it is wrong. There is the Penobscot Fiber Company, in Maine; that mill is producing more soda pulp now than it ever produced. I do not say in the last two or three months, as business has been so bad, but right up to this depression they have produced more pulp and not used anything but poplar wood and basswood, but principally poplar. S. D. Warren have nearly doubled their output and they have two soda mills. They use only poplar, with a small percentage of bass. There are three mills on the D. & H. They are using poplar wood and they only use poplar and basswood. We have never used poplar wood at this mill, the Clarion, except what little we run across, but it does not grow abundantly here. I do not know that it will grow to any extent on these hills. It does farther south. Going down south, there is the Columbia Paper Company, at Buena Vista; that mill is using southern poplar. I do not know what name you give this, but all mills near Philadelphia are using southern poplar. They bring it up by boat. Dill & Collins, Jessup & Moore, Martin, William H. Nixon, Hamilton, and all soda-fiber mills use southern poplar and nothing else.

The CHAIRMAN. It is not the tulip tree?

Mr. PAINE. No; the southern poplar. All the northern mills are using northern poplar. It is termed by some quaking asp. It grows in the Adirondacks or in the South. From this you can see that the consumption of poplar is not decreasing.

DEPARTMENT OF COMMERCE AND LABOR, BUREAU OF STATISTICS, Washington, December 10, 1908.

Hon. JAMES R. MANN, M. C.,

House of Representatives, Washington, D. C.

Sir: Referring to the correspondence between you and this bureau in regard to the price of news-print paper in foreign countries, I inclose to you herewith copies of publications which were received during the summer upon that subject, hoping they do not reach you too late to be of service. There would seem to be an error in the reply of Mr. John P. Bray, American consul-general at Melbourne, Australia, in regard to the contracts for paper during three running years. The figures are given as they appear in his communication, but the reduction to United States money appears to be inaccurate.

Very truly, yours.

O. P. Austin. Chief of Bureau.

DEPARTMENT OF STATE. Washington, July 10, 1908.

CHIEF CLERK,

Department of Commerce and Labor.

Sir: By direction of the Secretary of State, referring to previous correspondence on the subject of price of news-print paper in foreign countries, I have the honor to inclose herewith copy of a dispatch from Consul-General Bray, of Melbourne, Australia, dated May 15, 1908, supplementing his telegram previously transmitted to you. I am, sir, your obedient servant,

W. T. CARR, Chief Clerk.

AMERICAN CONSULATE-GENERAL. Melbourne, Australia, May 15, 1908.

The Assistant Secretary of State,

Washington, D. C.

Sir: I have the honor to acknowledge receipt of the following cablegram from the Department of State: "Telegraph market price in Australia news-print paper now and annually for past six years," and to confirm my reply thereto, as follows:

"American, £12 7s. 6d. [equivalent to \$60.22 per long ton, or \$53.76 per ton of 2.000 pounds]; English, £13 2s. 6d. [\$63.87 per long ton, \$57.03 short ton]. British tons c. i. f., past six years average pound less."

In addition, I may mention that the largest newspapers in this city have contracts for three years now running at the following prices: English, £12 11s. 6d. [probably should be £11 12s. 6d.] (\$56.57) [equivalent to \$50.51 per short ton] and £11 7s. 6d. (\$55.35) [\$49.42 for short ton]; American, £11 5s. 0d. (\$54.74) [\$48.89 for short ton]. and £11 2s. 1d. (\$54.03) [\$48.24 for short ton].a

I am, your obedient ervant,

JOHN P. BRAY, Consul-General.

DEPARTMENT OF STATE. Washington, June 29, 1908.

The CHIEF CLERK.

Department of Commerce and Labor.

Sin: By direction of the Secretary of State, referring to previous correspondence, I have to inclose herewith, for the information of your Department, copy of a report by Consul-General Wynne, of London, England, dated the 1st instant, regarding newsprint paper in Great Britain.

I am, sir, your obedient servant,

W. T. CARR. Chief Clerk.

^a Insertions in brackets made by committee.

JUNE 1, 1908.

I have the honor to transmit herein, in duplicate, report regarding news-print paper in Great Britain.

I have the honor to be, sir, your obedient servant,

ROBERT J. WYNNE, Consul-General.

#### NEWS-PRINT PAPER IN GREAT BRITAIN.

It is estimated that the amount of "news" paper made or marketed annually by independent firms in Great Britain is from 500,000 to 550,000 tons. No official figures are obtainable, and the foregoing estimate does not include the quantity manufactured by British newspapers possessing their own mills, nor paper costing over 3 cents per pound. Some journals use paper of a more expensive character, but the usual class for news print costs at present 21 cents per pound, though prices fluctuate slightly from time to time.

There is no "combination" controlling the supply or price. The trade is purely competitive, and the conditions governing it are simply the questions of world supply,

demand, and the prices of raw materials and chemicals.

The principal sources from which supplies are drawn are Scandinavia, Germany, and America, in addition to the home mills. Foreign competition, which, I am informed, is not so marked at present as formerly, is a considerable factor in the selling price.

Owing to the increased cost of wood pulp, there has been a general advance of 25 per

cent in the price of news-print paper.

There are some 72 mills in England making "printing" and "news;" 31 in Scotland;

There are some 72 mills in England making "printing" and "news;" 31 in Scotland; in Ireland only 1 of importance, viz., The North of Ireland Paper Mill Company.

It is estimated that not less than 8,000 tons of news-print paper are used weekly in the United Kingdom, of which about half is made by the home mills and half imported. Imports during the past year or two have shown a reduction, those from the United States having fallen off considerably. To quote the official classification American unprinted paper on reels fell from \$1,219,355 in 1906 to \$771,841 in 1907, and unprinted not on reels from \$600,866 in 1906 to \$457,246 in 1907.

The mills making paper for their own requirements are the Daily Telegraph mills and the Daily Chronicle mills. The principal center of the "news"-making industry

in this country is in Lancashire.

It is interesting to note that developments in connection with the British paper trade have of late years been chiefly confined to the "news" section, the productive capacity by the introduction of new machines having been considerably increased.

That the dividends paid by mills making "printings" and "news" are far from

satisfactory will be seen by the latest declarations as follows:

	Per cent.
John Annandale & Sons (Lintzford, Newcastle-on-Tyne)	4
Bury Paper Making Company (Gigg Mills, Bury, Lancashire)	73
Darwen Paper Mill Company (Spring Vale Mill, Darwen, Lancashire)	
East Lancashire Paper Mill Company (Radcliffe, North Manchester)	
North of Ireland Paper Mill Company (Milltown Mills, Ballyclare, County Antri	
Olive Bros. (Woolford Mills, Bury, Lancashire)	
Olive & Partington (Turn Lee Mills, Glossop)	
Owen, Thomas & Co. (Ely Paper Mills, Cardiff).	
Ramsbottom Paper Mills Company (Ramsbottom, North Manchester)	
Star Paper Mills Company (Feniscowles, North Blackburn)	10

A great quantity of the paper is sold by paper merchants in England to the Colonies, part of it being made in this country, part passing through England, and part going direct from Norway.

I am indebted for data for this report to Mr. W. M. Jackson, of Hooper & Jackson, publishers, and to Messrs. W. John Stonhill & Co., proprietors of the Paper Trade Review.

ROBERT J. WYNNE, Consul-General.



# PULP AND PAPER INVESTIGATION HEARINGS

HD 982'

#### SELECT COMMITTEE OF HOUSE OF REPRESENTATIVES

James R. Mann, Illinois, Chairman

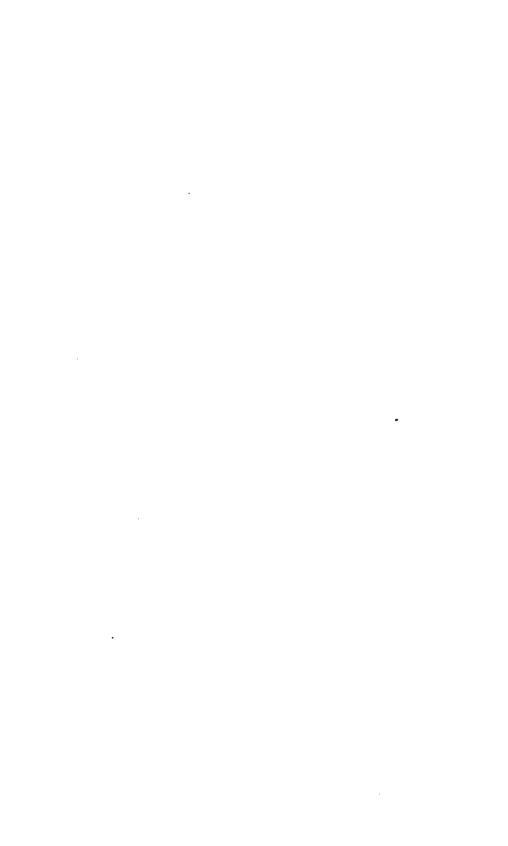
James M. Miller, Kansas Henry T. Bannon, Ohio

William H. Stafford, Wisconsin Thetus W. Sims, Tennessee

William H. Ryan, New York

NO. 35

WASHINGTON
GOVERNMENT PRINTING OFFICE
1909



## WOOD PULP, PRINT PAPER, ETC.

SELECT COMMITTEE ON PAPER AND PULP INVESTIGATION, Tuesday, December 22, 1908.

The committee this day met, Hon. James R. Mann in the chair.

QUANTITY OF STANDING SPRUCE AND RATE OF GROWTH OF SPRUCE IN THE UNITED STATES.

STATEMENTS OF MESSRS. EDWIN A. ZIEGLER, R. S. KELLOGG, AND E. SUTERMEISTER, FOREST SERVICE, DEPARTMENT OF AGRICULTURE.

The CHAIRMAN. Mr. Ziegler, you have been doing some work for this committee by direction of the forester?

Mr. Ziegler. I have.

The CHAIRMAN. Along what lines has your work been in this connection?

Mr. ZIEGLER. It has been along the lines of compiling the measurements and the rate of growth of spruce in the United States, and also compiling the data on the estimated stand of spruce.

The CHAIRMAN. You may give us the results of your investigation

so far as you have them in hand.

Mr. ZIEGLER. With regard to the rate of growth I have the results. Few species of forest trees have received more local investigation than the red spruce (P. rubens), yet no attempt has been made to outline in a necessarily rough way the probable approximate total production and compare it with the total consumption in the lumber and pulp industries.

The CHAIRMAN. What do you mean by the "red spruce?" trade they seem to know of white spruce and black spruce.

Mr. ZIEGLER. Red spruce is Picea rubens and is found in the Adirondacks of New York, through Maine, New Hampshire, and Vermont, but is not very often found, not commonly at least, in Minnesota and Wisconsin, the western part of this spruce belt.

The CHAIRMAN. Now let us get at that. Red spruce is what in the Adirondacks and New England they know as the white spruce?

Mr. Ziegler. I think it is; yes, sir.

The CHAIRMAN. Is not that the same as what they know as white

spruce in Minnesota and Wisconsin?

Mr. ZIEGLER. What we call white spruce is Picea canadensis, which is the common white spruce of Minnesota, but which is not very plentiful in New York and New England, where it, with red spruce (P. rubens), is often called "white spruce." There is some confusion, as you found, no doubt. Then they have the black spruce (P. mariana) out there also.

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The CHAIRMAN. The black spruce and what they call the white spruce out there seems to be a different tree. At least I am not sure whether the difference is in the tree always or the difference is where They call the larger spruce white spruce, and the swamp spruce is the black spruce. Is that a different variety?

Mr. ZIEGLER. Black spruce and white spruce in Minnesota are

different species.

The Chairman. But the large spruce out there, such as we have samples of here, is different from the same character of spruce which

is known as the white spruce in New England?

Mr. ZIEGLER. I think the majority of the large spruce out there is the white spruce (P. canadensis), while the great bulk of the spruce of New England is red spruce (P. rubens), also sometimes called "white spruce."

The Chairman. What you refer to as red spruce is what they call

the white spruce in the trade in the Northeastern States?

Mr. ZIEGLER. Yes; it is known by the name of red spruce in some localities and in some localities it is just designated as spruce.

The CHAIRMAN. In my work this summer I heard it referred to as

white spruce.

Mr. Ziegler. That is the Picea rubens. The data possessed by the Forest Service bear on stand, yield, growth, and composition of the spruce forests only in specific localities, and for the larger facts of distribution and present stand the various state forest officers must

be quoted as being the best authority.

Red spruce (P. rubens) is found in Maine, New Hampshire, Vermont, and the Adirondacks of New York, and the highest parts of the southern Appalachians (claimed to be "black spruce" here) not-The other spruces, such as black spruce (P. ably West Virginia. mariana) and white spruce (P. canadensis) are largely swamp trees of little comparative importance even in Michigan and Minnesota.

The CHAIRMAN. There are in northern Michigan and certainly in

Minnesota very large spruce trees?

Mr. ZIEGLER. Yes, sir.

The CHAIRMAN. They make large saw logs, and they are not swamp

Mr. ZIEGLER. They are more or less swamp trees, even though many large trees grow on moist soil outside of swamps. For instance, the tamarack out there grows mostly in the swamps; but it grows faster

outside than inside. It is, nevertheless, a swamp tree.

The CHAIRMAN. It grows faster along the edge of the stream where it is wet, but we found lots of white spruce, and they differentiate between the two, the black spruce growing more rapidly in some places. The swamp spruce, which they call the "black spruce" or "swamp spruce," is a very different tree in its rapidity of growth. Whether the difference is caused by the location where it grows, I do not know; but I have been led to suppose that the black spruce never grew large in any place.
Mr. Ziegler. It seldom grows large.

Maine is the most important spruce State, with its 12,000,000 to 14,000,000 acres of forest land and spruce distributed in greater or less quantities over about 10,000,000 acres, with a total stand, according to the estimate by townships of Forest Commissioner Ring, of a little over 21,200,000,000 feet, or an average of 2,100 feet per acre, 9 inches and over in diameter breast high.

The CHAIRMAN. That would be a little over 4 cords to the acre?

Mr. ZIEGLER. Yes, sir. We figure about 500 feet to the cord. New Hampshire has about 1,200,000 acres of forest containing spruce with an estimated stand of 4,764,000,000 board feet 6 inches and over, according to the forest survey made by the Forest Service.

The CHAIRMAN. That is your Forest Service?

Mr. ZIEGLER. Yes, sir; in cooperation with the State of New Hampshire.

No data are at hand for Vermont, but the spruce forests are less

than in New Hampshire.

New York may have 3,000,000 acres of spruce-bearing forests in the Adirondack region with an estimate of 5,000,000,000 feet of spruce, but this is largely on the 1,415,000 acres of state preserve.

The Chairman. Let us see. You say there are 3,000,000 acres of spruce-bearing forests in the Adirondacks, of which about one-half

belongs to the state preserve?

Mr. Ziegler. Yes, sir.

The CHAIRMAN. And the constitution of the State forbids the cutting of any timber upon that preserve at the present time?

Mr. Ziegler. Yes, sir.

The CHAIRMAN. Would that half in the state preserve include probably half of the 5,000,000,000 feet?

Mr. Ziegler. That would include more than half.

The CHAIRMAN. You may proceed.

Mr. ZIEGLER. For the purpose of this study, the spruce in West Virginia and other minor localities may be disregarded.

The CHAIRMAN. Is that correct; can it be disregarded?

Mr. ZIEGLER. The figures for the stand in West Virginia would be comparatively small and would not alter our total by any material extent. We have no data for the stand in West Virginia, except the area over which the spruce runs, and it is comparatively small compared to the other States growing spruce.

The Chairman. They cut a good deal of spruce for pulp wood, I

am told.

Mr. Ziegler. There?

The CHAIRMAN. In West Virginia now.

Mr. ZIEGLER. What they are cutting now is not an index of what they can cut for any period.

I have stated that the red spruce extends all through the southern

Appalachians on the high elevations.

Mr. Kellogg. As I understand, the spruce grows in West Virginia above an elevation of about 4,000 feet. You have to go up to 4,000 feet before you get merchantable quantities, and that makes relatively a small area.

The CHAIRMAN. The reason I asked the question is because I had supposed either from obesrvation or reading that spruce would not be found to any extent south of Washington, and not much this far south.

Mr. Kellogo. It grows on the highest elevations clear down to

North Carolina and Tennessee.

The CHAIRMAN. The North Carolina mill does not make any ground wood. It makes 100 tons of sulphite and 125 tons of soda fiber. For

the soda fiber they can probably use many kinds of hard wood and the sulphite is probably made from hemlock.

Mr. Kellogo. They are getting some spruce at that mill.

The CHAIRMAN. They may be. They use that for sulphite, but they can use the hemlock for sulphite.

Mr. ZIEGLER. Summarizing, then, spruce is found over an area of

almost 15,000,000 acres-

The CHAIRMAN (interrupting). That is in the East?

Mr. ZIEGLER. The red spruce I should have specified there, and almost 15,000,000 acres, with a stand of between 30,000,000,000 and 35,000,000,000 board feet (estimated to slightly different limits in different regions). This makes sufficient allowance for Vermont and the Lake States.

The CHAIRMAN. You say this makes sufficient allowance for the What figures do you estimate would cover the spruce

forests in Minnesota?

Mr. Ziegler. I think 1,000,000,000 feet. That is simply upon estimates which I have seen of standing timber.

Mr. Sims. That will include all the pulp-making spruce?

Mr. ZIEGLER. Yes, sir; the standing spruce.

The CHAIRMAN. You may proceed.

Mr. Ziegler. Maine is, of course, by far the most important region

of supply both in area and quantity.

Several studies in the growth of spruce in New York, New Hampshire, and Maine show somewhat different results, but agree in showing a much slower growth for the first 8 inches of diameter than for the growth from there on. I have here the figures showing the number of years required by trees of different diameters to increase 1 inch in

You will note that a 6-inch tree requires in a dense forest a larger number of years to grow 1 inch than a 12-inch tree, because the larger tree gets more light. When a tree becomes very large the number of rings per inch again increases. We have some specimens that show the reverse, but they are few compared with the number of measurements we have from the wood. We take all the trees on a cut-over area, giving us an average for that area.

The CHAIRMAN. I can readily believe that the statement may be true where you cut over the forest, cut out the larger trees so as to permit the smaller trees to have the sunlight, but that is not the

normal condition of a forest.

Mr. ZIEGLER. It is the normal condition of a spruce forest in that region; what we call the "virgin forest."

The CHAIRMAN. Do you really believe that in the virgin spruce forest of trees growing thickly, the trees grow faster in diameter after they reach 8 inches in diameter than before?

Mr. Ziegler. Yes.

The CHAIRMAN. Where there is shade all over the trees?

Mr. Ziegler. No. Spruce is a tree which will grow in the shade when young and grow for years and that is the way most of the young spruce trees come up in the original forest. After they get up to a certain height they get their crowns in the direct sunlight, and they begin to grow faster. They put on more limbs, and there is a larger crown which is really the digestive apparatus. The CHAIRMAN. It seems that is at least approaching the condition

in Maine, where you made an examination?

Mr. ZIEGLER. Yes, sir. In New York the same. Everywhere we take all the trees showing normal development on an area, not taking one tree which may not have had sufficient light. We found that growth increased with the size of the tree until maturity is reached, and this is corroborated in each of these six studies. We have here six localities.

The CHAIRMAN. That is on the theory that when a tree is in the sunlight and it is grown up it ceases to grow tall. It merely grows larger around.

Mr. Ziegler. That is true.

The CHAIRMAN. When it gets to the point where it gets sunlight and can branch out, then it has a chance to expand in girth. Of course these samples we have here were not cut by foresters, but after all they were cut by the men who were actually furnishing the stuff.

Mr. ZIEGLER. If you had selected the trees yourself I think you could get a pretty good average. On the other hand, they may be

picked-up samples.

The Chairman. These samples were cut from the trees that actually came to the mill.

Mr. Kellogg. Cut at the mill?

The CHAIRMAN. I think so.

Mr. Kellogg. Then you do not know what you have?

The CHAIRMAN. We do not. We know that we got the trees

under the normal conditions that they came to the mill.

Mr. Ziegler. In this table the first column is Essex County, N. Y., and we had 461 trees measured. They were measured right in the woods, when the trees were cut. Santa Clara, Franklin County, N. Y., that is second; we had 1,593 trees measured in cut-over forest.

Mr. Sims. Is it not a more reliable average of growth to take all the trees in an area and estimate from that than to take any number of

samples that might be selected?

Mr. ZIEGLER. It certainly is for the rate of growth for the forest as it stands. Otherwise, if you take a number of trees which are fast growing and get a rate and apply it to a slow-growing area you get a faster increment than is really there.

Mr. Sims. It is not reliable?

Mr. Ziegler. No, sir.

The CHAIRMAN. It is just as reliable as you can get by taking the average of the trees that come to a mill from a locality when you wish to ascertain the rate of growth of trees in that locality.

Now, let us get at what you have here. You have a table prepared showing the time required for spruce trees of various diameters

to grow 1 inch in diameter?

Mr. Ziegler. Yes, sir.

#### The CHAIRMAN. That table is as follows:

Table showing time required for spruce trees of various diameters to grow 1 inch in diameter.

	Time required to increase 1 inch.				
Present diameter, breast high.	(1) Essex County, N. Y.	(2) Senta Ciara Franklin County, N. Y.	(3) Nehasane Park, N. Y.	(4) Grafton County, N. H.	(5) Squaw Mountain Town- ship, Pis- cataquis County, Me.
3 inches	Years.	Years.	Years.	Years.	Years.
4 inches	17 14 12	11 10			38 29
7 inches. 8 inches.	11 10 9	8	10	12 10	23 19 15
10 inches	8 7	7 7	8 7	10 10	11
12 inches	1 -	6 6	8 7 9	10 10	11 11
15 inches	6 6		9		10
17 inches	6		9		10

(1) Four hundred and sixty-one trees measured. Page 31, Bulletin 30, Division of Forestry. "A working plan for township 40, New York State forest preserve," Hosmer and Bruce.

(2) One thousand five hundred and ninety-three trees measured in cut-over forests.

Page 45, "The Adirondack spruce," Pinchot.

(3) Two hundred and ninety-eight trees measured in "original forest." Page 43, Bulletin 26, Division of Forestry, "Practical forestry in the Adirondacks," Graves.

(4) Study on the Pike Tract, Woolsey.

(5) One thousand one hundred and seventy-four trees measured. "Maine forest Survey." Hemory, page 92, Repeat of Except Commissioner, Maine, 1902.

survey," Hosmer, page 92, Report of Forest Commissioner, Maine. 1902.

The CHAIRMAN. The basis for these figures is given below in the footnotes—the number of trees measured, who measured them, and

Mr. Ziegler. I will explain. The first column is marked "Diame-

ter, breast-high." That is 4½ feet from the ground. The CHAIRMAN. You have columns 1, 2, 3, 4, and 5. In the first line you have under column No. 1 twenty-two years. What does that mean; that it takes twenty-two years for a tree 3 inches in diameter to add 1 inch?

Mr. Ziegler. Correct.

The CHAIRMAN. That does not mean that it is 22 years old when it gets to be a 4-inch tree?

Mr. Ziegler. No, sir.

The CHAIRMAN. But it takes twenty-two years to add 1 inch?

Mr. Ziegler. Yes, sir; under those conditions.

The CHAIRMAN. Under what conditions?

Mr. Ziegler. The forest conditions in Essex County, N. Y. These figures have been taken from "A working plan for township 40, New York State forest preserve," made by Hosmer and Bruce, page 31, Bulletin 30 of the Forest Service.

The CHAIRMAN. In your second line of figures you take a tree 4 inches in diameter and say it will take seventeen years for it to reach a diameter of 5 inches?

Mr. ZIEGLER. Yes, sir.

The CHAIRMAN. That is based on 461 trees measured in the New

York State forest preserve?

Mr. ZIEGLER. Yes, sir. I have not stated how many of the 461 trees were 3 inches, 4 inches, and 5 inches, because it would have made the table very bulky.

The CHAIRMAN. There may have been only one tree 3 inches in

diameter?

Mr. ZIEGLER. No, sir. I rejected all figures that did not have

sufficient basis, and one tree would not be a sufficient basis.

The CHAIRMAN. That does not look to me as though it was a full statement. In other words, I should doubt whether that was correct, that it takes twenty-two years even in that location for a 3-inch tree to become a 4-inch tree. Mind you, I do not doubt the figures What I want to ascertain is whether the trees measured might

not all have been stunted trees and not normal trees at all.

Mr. Ziegler. I think not. They were all taken by a forester who is now forester for Hawaii, Mr. Hosmer, and in selecting his trees (he made this growth table for a working plan) he selected representative trees for a second growth, as he was trying to arrive at a growth from which he could figure the financial returns, and certainly he would not take stunted trees for that purpose. The purpose of showing the tables in that form was to find out how large the trees that were left would be ten, twenty, or thirty years from now. In other words, he figured what the second growth would be ten, twenty, or thirty years after the first cut. You have some of the tables here taken from that same study.

The CHAIRMAN. Yes; we have a lot of tables. The trouble is to understand them without explanation by one who is not an expert.

Now, for instance, in the table you now have is a 9-inch tree, breast-high, and according to that in Essex County, N. Y., it would take nine years to become a 10-inch tree; in Santa Clara, Franklin County, N. Y., seven years to become a 10-inch tree; in Nehasane Park, New York, ten years to become a 10-inch tree, the same length of time in Grafton County, N. H., and in Squaw Mountain Township, Piscataquis County, Me., it would take fifteen years. That is the correct way to figure it?

Mr. ZIEGLER. Yes, sir. There is a difference, however, between column 2 and column 3. Column 2 is based on 1,593 trees in cutover forest and column 3 is based on 298 trees in original forest.

The CHAIRMAN. Do the 1,593 trees measured in cut-over forest

mean that they measured the stumps?

Mr. Ziegler. These measurements were all taken where the tree was cut, usually at 1½ to 3 feet from the ground, and the measurements were reduced to breastheight.

The CHAIRMAN. As a matter of fact, in column 2 does that mean a

second-growth forest?

Mr. ZIEGLER. Column 2 is where the trees may have started under the original conditions, and have been given more light by the cutting over of the forest, which would increase their growth. The original cutting was not a clean cutting, as they are cutting there at this time.

Now, those figures vary largely, because these trees have been growing in various degrees of shade, but after you pass the 9 or 10 inch point you will notice that they have a tendency to become constant, and those are the figures which we accept as the rate of growth under good conditions.

I go on with a little explanation on the next page, calling attention to the fact that spruce seems to be more rapid in growth in New York

and to decrease in Maine.

The CHAIRMAN. Others tell me the reverse. Have you made an

Mr. Ziegler. I think we have a great deal better basis than the other people.

The Chairman. I suppose that is true. Now proceed.

Mr. ZIEGLER. I say further that spruce on cut-over lands increases its growth to some extent, as shown in columns two and three of the preceding table, one growth taken in cut-over forest and the other in Regarding 12 inches as the average size of spruce dense uncut forest. on cut-over and virgin lands, an average growth of eight years to the inch might be accepted for the entire range.

The Charman. You mean an average of eight years to the inch

after you reach the diameter of 12 inches?

Mr. ZIEGLER. Yes; eight years for a 12-inch tree to grow to a 13inch tree. You will notice in one column seven years, in another column six years, in another column eight years; in New Hampshire vou get ten years, and in Maine you get eleven years. So it ranges from six to eleven years, and I have taken eight years as an approximate average. Hence, in eight years the 12-inch tree increases its volume 17.5 per cent, or about 2.2 per cent per year. Now, that 2.2 per cent is not for the entire life of the tree up to 12 inches in diameter, but after a tree is 12 inches in diameter it then increases at an average rate of 2.2 per cent per year in volume.

The Chairman. You are now speaking of volume, not diameter?

Mr. ZIEGLER. The volume.

The CHAIRMAN. Of course, when a tree is young it increases its diameter or percentage much more rapidly than it does when old? Mr. ZIEGLER. Yes, sir; it does. I take this percentage at this

point in order to apply it to the stands given later.

Accepting the rough estimate of 35,000,000,000 feet (some of which is mature and growing very slowly, but which is offset by the young growth coming up) as a measure of the growing stock, and applying the 2.2 per cent probable annual increase, a total annual increase of 770,000,000 feet would be indicated. If the small growing spruce (which has a slower rate of growth) is present in larger amount than necessary to keep up a constant stand of 35,000,000,000 feet the merchantable annual growth will later increase beyond 770,000,000 feet—provided the young growth is protected. On the other hand, if the young growth is deficient then as the present 35,000,000,000 feet decreases by excess cutting, the total annual growth will decrease. In other words, you will cut into your capital and as your capital decreases the interest will decrease.

The CHAIRMAN. Of course the situation is very different in different places. In the East as a rule spruce does not grow as clear spruce forests. It is scattered generally, is it not?

Mr. Ziegler. Mixed with white birch and other species.

The CHAIRMAN. Mixed with all sorts of things. They count 2 to 5 cords to the acre. Of course that is a very thin stand of spruce.

Mr. ZIEGLER. That is applied, however, to the entire area, cut over

and uncut.

The CHAIRMAN. No, sir. They figure on about 21 cords to the acre, I think, in Quebec. Of course in a dense spruce forest they often get 25 to 40 cords to the acre, and in Minnesota, in the Rainy River basin, they figure the whole of it at 10 cords to the acre, which is probably a fair estimate. When the forest growth is dense there is very little young spruce?

Mr. Ziegler. Yes, sir. A spruce forest or any forest can be too

dense for any young trees to grow in its shade. However, spruce will grow in a denser shade than many other trees and recover when the

shade is removed.

The Chairman. Of course, when the forest is dense there is very

little undergrowth that is of any value at all. Now proceed.

Mr. ZIEGLER. The estimate for the entire spruce area above, including cut-over, culled, and virgin land would indicate an annual growth of possibly 50 board feet per acre per year. Studies in New York and Maine indicate an annual growth of spruce of from 40 to 100 board feet per acre per year on lands with 30 to 40 per cent spruce. That brings out the point you made about other species being in the forest.

The consumption of domestic spruce in 1907 in the eastern United States was over 1,300 million feet in lumber and 1,795,000 cords of pulp wood, or (allowing a cord to equal about 500 board feet) a total consumption of almost 2,200,000,000 feet of spruce. With an estimated annual production of 770,000,000 feet, it is clear that our

spruce forests are being overcut.

The CHAIRMAN. Is that the report as to the domestic cutting of

wood 8

Mr. Ziegler. Yes, sir We have deducted the imports. We use in all, I think, about 3,000,000 cords of spruce. Is not that right,

Mr. KELLOGG. Yes, sir. Mr. Mann has the exact figures. We used last year 2,700,000 cords of spruce altogether, two-thirds

domestic spruce and one-third imported.

The CHAIRMAN. Now, of that 1,795,000 cords of domestic spruce pulp wood, 938,000 were in New England, 429,000 in New York, nearly 9,000 in Pennsylvania, and 250,000 in what you call the Lake States; that is, Michigan, Wisconsin, and Minnesota. As a matter of fact, do you know whether the Maine spruce forests are retrograding?

Mr. Ziegler. I do not; I can not state from personal experience. The CHAIRMAN. I have been told that the Maine spruce forests

were getting better on the average.

Mr. ZIEGLER. What do you mean by "getting better;" more timber?

The CHAIRMAN. Yes, sir.

Mr. Ziegler. I imagine those cut-over areas are not considered as forests any more.

The CHAIRMAN. Are you right about that?

Mr. ZIEGLER. In the minds of lumbermen, cut-over land is often not considered a forest, and they usually will abandon it.

The CHAIRMAN. Is that the case in Maine?

Mr. Ziegler. The paper companies are holding some land for a second cut.

The CHAIRMAN. They do not cut over the forests clean in Maine, as a rule, for pulp?

Mr. ZIEGLER. Some of them cut down to 4 inches.

The CHAIRMAN. A few of them may, for all I know, but some of the larger mills in Maine state to us that as a rule they do not cut below 10 or 12 inches. Some of them say that they do not cut below They are attempting to conserve their forests. You have 14 inches. here 938,000 cords cut in New England, and of course I suppose that means Maine and New Hampshire. That is a larger cut than anywhere else. That is over half of the cut in the United States?

Mr. Ziegler. Yes. sir.

The CHAIRMAN. It would be very interesting to know whether your theory is borne out in that particular place. You figure that they can only cut 770,000,000 feet, and that is 1,500,000 cords altogether?
Mr. Ziegler. Yes, sir; that includes lumber.

The CHAIRMAN. Without reducing the stock. We are cutting over 900,000 cords for pulp wood alone in Maine. How much is cut for saw logs does not appear at present.

Mr. Kellogg. In Maine alone 528,000,000 board feet of spruce

lumber was cut in 1907.

The CHAIRMAN. Considerably more than one-third of the total

Mr. Kellogg. Of the total amount cut in the Northern and Eastern States. There is some spruce cut in the West.

Mr. Ziegler. But a different spruce?

Mr. Kellogg. Yes, sir.

The CHAIRMAN. Is there any land in Maine where they cut off the

forest that is not being used to reproduce forests now?

Mr. Ziegler. You have areas up there that are very much injured as far as the reproduction is concerned—burned over a number of times—and that land is given up to poplar and birch, as the seed is scattered very readily by the wind; it is very light seed. severe burn the first to appear is the poplar, usually followed very Those trees, especially the birch, will also closely by the birch. sprout from the stump.

The CHAIRMAN. Of course, Maine has been the territory from

which spruce has been drawn for a great many years.

Mr. Kellogo. There can not be any doubt, I should say, that there is very much less standing timber now than when they first began to

cut there, at any rate.

The CHAIRMAN. I presume that is true. There will always be less standing timber in any territory unless you increase the area that is in a forest after you commence to cut the original forest. The moment you commence to cut the forest there would be less timber standing, even under the best forest conservation methods.

Mr. Ziegler. If there is abundant timber now compared with twenty years ago, how would that explain the rise in the stumpage

price up there?

The CHAIRMAN. I do not think there is any difficulty about explaining that in any event.

When it comes to cutting pulp wood, in some places they aim to cut only the fairly matured timber, in some places they cut it clean, in some places they cut spruce that never would make saw logs at all, and it would be quite useful if we could obtain information as to the average age of trees, the different sizes and different classes of trees under different forestry conditions.

Mr. Ziegler. We can not give you that because we have not had any forestry conditions; that is to say, scientific control of the forests.

stocking, etc.

The Chairman. I do not see that that would make any difference. whether it is under scientific control. It does not grow any faster than under natural control under the same conditions.

Mr. ZIEGLER. Yes, sir; but we change the conditions. We can produce twice as much spruce per acre as is grown up there now.

The CHAIRMAN. Undoubtedly. I do not know that there is any difficulty about that at all. You can not produce twice the spruce per acre that is grown up in Minnescta?

Mr. Ziegler. On the average we can.

The Chairman. No. You might produce more than the second growth if the fires get in.

Mr. Ziegler. That is what they have been doing.

The CHAIRMAN. Well, they have not been getting very much into that swamp spruce territy ry, but when they drain it off, as they are ncw d. ing, very likely it will burn out. Of course you can plant spruce and produce a greater number of trees, trees that are profitable to grow, but which it is not profitable to plant at present prices.

Mr. ZIEGLER. By the time you are ready to cut the trees the prices

will be all right and high enough.

The CHAIRMAN. I am inclined to agree with you, but that is something y u and I will never know.

Mr. Sims. They would never be harvested during your lifetime?

Mr. Ziegler. No; the majority would not be, that is true. The Chairman. You are not able from the data you have to give us the average age of the different varieties of spruce or other trees grown under different conditions at different times?

Mr. ZIEGLER. We have no data under different conditions of management. I have figures for red spruce in Maine, which give the

diameter on the basis of age.

The CHAIRMAN. Before you go into that finish this other statement and then we will take that up.

Mr. Ziegler. Yes, sir.

When it is recalled that our northern forests are on the average not more than half as well stocked as they should be (75 to 130 square feet basal area in virgin forests) and that spruce forms only about 30 per cent of the stand of the forest, it is seen that there is plenty of room to increase the annual production of spruce by proper methods to the point where production will equal the cut. I will explain that the basal area is the sum of the cross-sections of the trees grown per

The Chairman. According to your figures, there would be from 75 to 130 square feet surface of stumps if the trees were all cut off?

Mr. ZIEGLER. Yes, sir; that is right. We find in German forests where they both reproduce by natural methods and plant in blanks or the bare spots, so that they get in a normal forest about all the land will bear, they have anywhere from 200 to 250 square feet of stump cross section if it were all cut off, showing clearly that our forests, including all species, at the present time are not nearly as dense as they might be.

The CHAIRMAN. As to the density of a forest, do you think that a forest increases any more rapidly in actual measurement when it is really dense than when it is not so dense, provided, so far as lumber-

ing is concerned, it is dense enough?

Mr. Ziegler. Your growth in amount of wood will increase with the density up to a certain point. After you pass that point by getting more trees per acre you are simply getting a slower growth per tree

and not increasing the total wood growth.

The CHAIRMAN. Is not this the real situation—that where the forest is cut off, either in whole or in part, the tendency is, at first at least, for less valuable trees, which either scatter their seed easily or grow rapidly to take possession at the time?

Mr. Ziegler. That is correct.

The CHAIRMAN. Is not that the main difficulty? Mr. ZIEGLER. Yes, sir; that is the main difficulty.

The CHAIRMAN. A forest usually grows thick enough? Mr. Ziegler. If you include the brush. You will find when you get

down to the ground that there is enough of a ground covering to absorb the sun's rays, but the trees are frequently not thick enough and occasionally too thick for rapid growth.

Mr. Kellogo. The density you will get following a cut will depend very largely upon how closely you cut in the first place, and as to what opportunity you have left for the trees to reproduce.

The CHAIRMAN. You may proceed, Mr. Ziegler.

Mr. Ziegler. Doctor Fernow, in Economics of Forestry, estimates that pure spruce forests under proper management could produce at the rate of 1 cord (500 board feet) of pulp wood per acre per year. This estimate is abundantly high.

The CHAIRMAN. I should think it was.

Mr. ZIEGLER. We would have to figure, of course, on what might equal a perfect forest where you plant in all blanks and keep it dense. At this rate 4,400,000 acres of pure spruce forest under best management would be necessary to maintain the present consumption of 2,200 million feet of domestic spruce by the sawmills and pulp companies.

The Chairman. Do you accept that statement of Doctor Fernow's? Mr. Ziegler. I do not know, if foresters were put in charge, whether they could bring a forest up to that degree of production in anything

less than one hundred years.

The CHAIRMAN. Do you not know that they could never do it?

Mr. ZIEGLER. I do not know.

The Chairman. Let us reason it out. I have seen pulp wood forests this summer that would likely produce 50 cords of pulp wood to the acre, black spruce, many years old, growing so thickly that in places it was difficult to get in between the trees, and much denser and fuller than will ever be found where you have white spruce. Now, if you take that and cut off one cord a year it would have to completely reproduce itself in fifty years?

Mr. Ziegler. Yes, sir.

The CHAIRMAN. Is there any place on earth where it will do it, or begin to?

Mr. Ziegler. I do not think black spruce would. That is the

slowest-growing spruce we have.

The CHAIRMAN. I take black spruce because we seem to get a larger yield of pulp wood from that per acre than we do from white spruce. Of course, black spruce itself will not grow so rapidly, but can you produce even white spruce within fifty or seventy-five years?

Mr. Ziegler. Eighty years for white spruce or red spruce (as

we call it) in the East.

The CHAIRMAN. You can produce a fair-sized white-spruce forest in eighty years that is not grown dense, but you can not find any place where it grows dense where you can produce it in eighty years, and if you did that is only a little over half a cord an acre, and on the basis of 50 cords to an acre there is no place you can find where white spruce will yield 50 cords to an acre.

Mr. ZIEGLER. When Doctor Fernow speaks of 1 cord, he means 1 cord of wood in the tree, as I understand it. The bark has not been

deducted, which amounts to 11 per cent.

The CHAIRMAN. If he does not mean 1 cord, that is another question.

I am not thinking about rossed pulp wood.

Mr. ZIEGLER. Foresters can produce, and they are producing, in eighty years a great deal more than 50 cords per acre. That is not the limit that will stand on an acre.

The CHAIRMAN. Where?

Mr. Ziegler. Over in Europe, and I can quote white pine for

New England which we regard as normal.

The CHAIRMAN. I expect you can find that where the trees are 150 and 200 years old and tower up in the air, but even 50 cords to an acre is a mighty good stand for that stuff, 200 years old and 150 years old. and it grows faster than spruce.

Mr. ZIEGLER. Yes, sir; a great deal faster. We have trees under

100 years old which will produce that.

The Chairman. It takes a mighty good stand—

Mr. ZIEGLER. It does.

The CHAIRMAN. To produce 25,000 board feet per acre of forest.

a mighty good stand.

Mr. Ziegler. A 90-year-old stand in New Hampshire of white pine if fully stocked and dense—

The CHAIRMAN. What does this actually measure?

Mr. ZIEGLER. This is what they actually measure. If they were taken under management it has been demonstrated that when 90 years old they will have 220 trees to the acre with a mean diameter of 14½ inches, a mean height of 93 feet and an acre yield of 11,000 cubic feet, which would be 120 cords, including saw logs and firewood, approximately 41,000 board feet.

The CHAIRMAN. That is an actual measurement of what is on the

ground?

Mr. Ziegler. Yes, sir.

Mr. Sims. You mean that a quarter of an acre here and a quarter there added together would equal that?

Mr. ZIEGLER. No, sir; I can not pick out a thousand acres in a block like that; I can not pick out 500 acres in a block like that, because they are volunteer stands.

The CHAIRMAN. These were not planted by foresters? Mr. Ziegler. No, indeed; it is a volunteer stand.

The CHAIRMAN. Do you know how far apart the trees would be on

an acre, 220 to the acre?

Mr. ZIEGLER. I do not have that table here. They would be more than 10 by 10, though; considerably more. You can easily figure that out.

The CHAIRMAN. I understand. I thought probably you had it.

Mr. Kellogg. There would be a tree for about every three-quarters of a square rod; more exactly, 14 feet by 14 feet.

Mr. Sims. What did you say was the average diameter there for

ninety years?
Mr. ZIEGLER. Fourteen and one-half inches.

Mr. Sims. That includes the bark?

Mr. Ziegler. Yes.

The CHAIRMAN. I would be very glad to see a forest that would produce an 80-foot tree in ninety years, 14 inches in diameter for every three-quarters of a square rod. It certainly is not a normal forest condition.

Mr. Ziegler. It is what we call an ideal forest condition. Mr. Sims. That is purely accidental, as I understand it.

Mr. Ziegler. No, indeed; that is quality two. These stands are actually measured. White pine will grow in one locality faster than it will grow in another, and we called the best growth "quality one," the middle one "quality two," and the slowest one "quality three," and this is quality two; it is not even quality one.

Mr. Sims. I understood Mr. Mann to challenge the fact that you could find a single acre under any conditions that will produce that

growth in ninety years.

Mr. Ziegler. We can show him acres that will exceed that.

The CHAIRMAN. I doubt whether they can produce any condition that will show that much.

Mr. Sims. You are doubting the age, I suppose?

The CHAIRMAN. Yes.

Mr. Sims. Were they cut or measured? Mr. Ziegler. They had been measured.

Mr. Sims. Did you cut them to ascertain that they were 90 years

Mr. Ziegler. Yes; and we had records of some of the rest of them.

The CHAIRMAN. The rest was estimated.

Mr. ZIEGLER. There was no estimating. Every tree was on a

The CHAIRMAN. That is still an estimate.

Mr. ZIEGLER. It is an estimate within, perhaps, 5 per cent for the individual tree, or possibly 10 per cent. For the number of trees it is an esti: ate within 5 per cent. Every measurement is an estimate within a very narrow n argin.

The Chairman. They do it in the practical way?

Mr. Kellogg. This was an actual measurement of every tree on the tract.

Mr. ZIEGLER. We took the tape and stretched it out on the ground and measured the exact size of the plat, and then got the diameter

and height of each tree by actual measurement.

The CHAIRMAN. According to this report of the pulp-wood consumption in 1907—I am inclined to think it is inaccurate in that respect—they had the cords of cottonwood in 1905 at 10,000 and in 1907 at 66,000. I think that first figure must be a mistake as to cottonwood.

Mr. Kellogg. That is all we had reported in that year. That is

the best we can say. There may have been more.

The CHAIRMAN. Yes; that is true. The aspen grows farther north than the cotton wood?

Mr. Kellogg. Yes.

The Chairman. Here, for instance, we have this Memphis, Tenn., mill making a cotton-hull fiber, with a capacity of 24,000 pounds per day. I would like to know what they use for pulp material.

Mr. Sims. That evidently is what we call "linters" in cotton; that is, reginned cotton seeds. I do not know that it is that; I am

only supposing it is.

The CHAIRMAN. They would use the hulls only? Mr. Sims. They must make it out of the fiber.

Mr. Sutermeister. I think probably that is made from the lint taken from the seed, not from the hull itself.

Mr. Sims. I did not mean the boll.

Mr. Sutermeister. No; the lint that sticks to the seed after it

is ginned.

Mr. Sims. In the first place, the cotton is ginned ordinarily, then the cotton is put in the bales; then the seed, by the oil mills, is reginned, and that product is called "linters" in the market. It must be cotton seed that has not been used by the oil mills, which include a lot of short lint sticking to the seed.

Mr. Sutermeister. That is it.

Mr. Sims. But the oil mills separate the hard substances in the seed from the kernels. That hard substance is called "hulls."

Mr. SUTERMEISTER. That is right.

Mr. Sims. Possibly there is paper made out of that hard substance

called "hulls." Those hulls are very fine feed for cattle.

The Chairman. They are said to have been used a year or so ago—whether they are using it now, I do not know—bagasse, if that is the correct word, for paper.

Mr. SUTERMEISTER. I have heard of several mills that have started to, but I have never seen any paper made out of it on a commercial

scale.

The CHAIRMAN. I was told the other day they were shipping pulp to Europe made in New Orleans, and I wondered whether it was correct or not.

Mr. Sims. Made out of what?

The CHAIRMAN. The sugar cane bagasse—what is left from the refuse of the cane.

Mr. Sims. That is similar to making it out of cornstalks.

Mr. Sutermeister. It is very similar to making it out of cornstalks.

The Chairman. They have to get the sugar cane there, anyhow.

Mr. Sims. I say, it is a similar pulp to cornstalk pulp.

Mr. Sutermeister. Almost identical, yes.

The CHAIRMAN. What about the spruce forests in the West?

Mr. ZIEGLER. We have not compiled figures on them. We have Engelmann spruce in the Rocky Mountain region, the Sitka spruce, sometimes called tide-land spruce, along the Puget Sound region.

The CHAIRMAN. They say there is a considerable quantity of spruce in Idaho. Do you know anything about that?

Mr. ZIEGLER. That is the Engelmann spruce; yes.
The CHAIRMAN. And large quantities of it in Washington?

Mr. ZIEGLER. There are considerable quantities in Washington. However, that is a different spruce; that is the Sitka spruce.

The Chairman. And large quantities of it in Alaska? Mr. ZIEGLER. The same thing; yes, along the coast.

The CHAIRMAN. Does anyone know how much there is up there, or

has anyone any idea of it?

Mr. ZIEGLER. We have an estimate on it, made from the entire timber stand up there. Whether they segregate the different species or not I do not know.

Mr. Kellogg. They do not. The estimate of the entire stand of merchantable saw timber in Alaska is about 77,000,000,000 feet, and the bulk of it is spruce.

Mr. Sims. What variety of spruce did you call it?

Mr. ZIEGLER. Sitka.

Mr. Sims. What does that mean?

Mr. ZIEGLER. We do not have it in the East here at all. Mr. Sims. What I am trying to get at is how to record it.

The CHAIRMAN. It is a different variety of spruce, as the Norway spruce is different from ours, but as far as making paper is concerned it is the same thing.

Mr. Kellogg. As near as we can get at it, the stand of Engelmann spruce would not be over two and one-half billion feet in the West.

The CHAIRMAN. That is the Idaho spruce? Mr. Kellogg. Yes; in Idaho and Colorado.

The CHAIRMAN. The spruce on this side of the Rocky Mountains, you mean?

Mr. Kellogg. No; on the Rocky Mountains themselves.

The CHAIRMAN. On the Rocky Mountains?

Mr. Kellogg. Yes. There are probably two and one-half billion feet of that.

The CHAIRMAN. On both sides of the divide?

Mr. Kellogg. Yes; from Colorado to Idaho, and from Idaho to New Mexico and Arizona.

The Chairman. I have seen considerable quantities of spruce away up in the mountains in Colorado.

Mr. Kellogo. That is probably the blue or the Engelmann.

The CHAIRMAN. No, I do not think that is blue spruce, because that is easily noticeable.

Mr. Kellogg. It is mostly Engelmann spruce that occurs in commercial quantities.

Mr. Sims. Will it be practicable to use it for commercial purposes

for paper making?

Mr. Kellogg. In a great many cases it is not at present, because it is not very accessible, and it is a long way from either a market or factory sites, and in a great many cases the water power is not available.

The Chairman. Is not the main difficulty that it is very large, in

Idaho being used for lumber purposes?

Mr. Kellogg. Yes.

The CHAIRMAN. There are a number of large sawmills out there now.

Mr. ZIEGLER. Yes. There is another spruce that you may have in mind. That is Douglas spruce, which is not really a spruce, but is a fir.

The CHAIRMAN. Oh, yes; I know the Douglas fir.

Mr. Kellogg. As to how much Sitka spruce there is on the Pacific coast, we have not any figures at the present time.

The CHAIRMAN. According to your estimate there, is there more

spruce in Alaska than there is in the United States?

Mr. Kellogg. There may be; I would not attempt to say offhand whether half of that total stand in Alaska is spruce or not. want to look that up before I made a definite statement. The principal kinds of timber in Alaska, as I understand it, are spruce and hemlock.

Mr. Sims. I thought Alaska was too cold for timber. Mr. Kellogg. Oh, it is pretty wa m in southern Alaska.

The CHAIRMAN. Is there a considerable quantity of hemlock up there?

Mr. Kellogg. I think there is of the western hemlock.

Mr. ZIEGLER. They have a good deal of what they call "black" hemlock, which is poorer than the western hemlock.

The CHAIRMAN. Do you know whether that would be available for

use in making sulphite pulp?

Mr. Kellogo. So far as we know, I think it would make a good pulp. It is a question whether it is accessible or not. A lot of it probably is not.

Mr. Ziegler. The western hemlock on Puget Sound is accessible.

They are marketing it now.

The CHAIRMAN. That is largely big timber, is it not?

Mr. Ziegler. Yes.

The CHAIRMAN. More likely to be used for lumber than it is for pulp? Mr. Kellogg. The western hemlock in the United States is big timber; yes.

The CHAIRMAN. And the spruce also?

Mr. Kellogg. The Sitka spruce is; the Engelmann spruce is not so large.

The CHAIRMAN. We have been told repeatedly that the spruce out

in Idaho would run 2 and 3 feet in diameter—a great deal of it.

Mr. Kellogg. You will get some of it that will.

Mr. Ziegler. The Engelmann spruce runs up to 3 feet in diameter,

but the larger part is under 3 feet.

Mr. ZIEGLER. We have a table for Piscataguis County, Me., a survey made in 1902 by Mr. Hosmer, which shows that the spruce, from measurements made on 274 stumps right after the trees were cut, had at fifty years only a diameter of 1.1 inches, showing clearly that that stand came up under the shade of a preceding forest; at one hundred years it was 3.2 inches in diameter, and at two hundred years it was 9.7 inches in diameter. The trees ranged from 112 to 300 years old. In contrast with that we have another rate of growth here made for the Great Northern Paper Company, also in Maine, showing in fifty years a diameter of 5.3 inches, and in seventy years a diameter of 6.8 inches. That is as far as that investigation was carried. It was on second-growth spruce which came up under better light conditions, and which we might call, perhaps, a normal growth for spruce, where the land is pretty thoroughly cut over. The basis for the second rate of growth is thirty-nine 4½-foot stumps. Those trees were cut right at breast height for the purpose of this analysis, ranging from 49 to 197 years old. They evidently had some trees in there of considerable age. That is all we have showing the diameter at a given age. These other rates of growth were compiled in a different manner. Instead of counting all the rings on the stump, they counted the last 30 rings on the stump for different sized trees. They counted them for 3, 4, 5, and 6 inch trees, and from that partial count they got the data I have given you in that table, which gives the number of years required to grow an inch for different size trees. That was the form the early investigations took, and it is in that form that most of our data has been collected.

The Chairman. In Maine there must be a number of second-growth forests, of course, many forests where the big timber was cut out years ago. There ought to be a good many where it is of second-growth timber. I should think it would be possible to ascertain, under actual forest conditions up there, the growth of the timber. Of course, we all know that a tree coming up in a shade is one thing, and coming up on the land where there is a little forest is another thing. It is an entirely different proposition where it is all cut over and the trees come up thick again. I should think it would be easy to ascertain fairly accurately in reference to the age of trees—different timbers

under different conditions.

Mr. ZIEGLER. It would be if that was the object of the study. These studies, as I said before, were made for other purposes.

The CHAIRMAN. They are all made for the purpose of arriving at

one result, and that is information as to the growth of trees.

Mr. Ziegler. Correct. I would say that this second rate of growth I have just quoted, showing the 5.3 inches at fifty years and the 6.8 inches at seventy years would portray those conditions. That is where the areas had been cut over pretty thoroughly and the trees did not come up in the shade. I would not say cut over clean. It was cut over as the Great Northern Paper Company was cutting over its lands. That was back in 1902.

The CHAIRMAN. What is the prevalent forester's opinion to-day as to the method of reforestation, to cut clean or to cut out only the

large timber?

Mr. ZIEGLER. I should say that that depends entirely on a number of circumstances, and especially the species in the forest. Some shallow-rooted species, like spruce, in exposed situations must be cut clean, because if a few seed trees of large size are left they will likely be blown down by the wind and lost. In protected situations groups or strips of seed trees may be safely left to seed up the ground. No forest can be handled according to one inflexible method, but the method must be varied here and there according to topography, species, character of seed, ability to sprout from stumps, etc.

The CHAIRMAN. What is the method followed now in German forests? Do they not generally cut strips clean?

Mr. Ziegler. The usual way is to cut clean there and plant. The

best success is attained that way.

The CHAIRMAN. Is it all planted or partly reseeded?

Mr. ZIEGLER. In some places they practice the natural method of reseeding, leaving seed trees in groups, strips, or, if very firmly rooted, in scattered stand.

The Chairman. Have you any estimate as to the cost of replanting?

Mr. Ziegler. In this country?

The Chairman. Anywhere.

Mr. ZIEGLER. We have estimates of the cost of replanting; yes. They figure that white pine may be replanted at \$10 an acre. I think they usually figure on setting out trees 6 feet by 6 feet, which would take about 1,200 trees to the acre. That includes growing your trees.

The CHAIRMAN. Is there any place in this country where that has

been tried?

Mr. Ziegler. Planting?

The CHAIRMAN. Planting white pine 6 feet apart at \$10 an acre.

Mr. ZIEGLER. I do not know whether they figure the cost or not. We have examined plantations of white pine in New England that were cut. We know what they are yielding.

The CHAIRMAN. Where they plant that way, do they have to pre-

pare the ground in advance?

Mr. Ziegler. They do not, though the growth is better in prepared ground. Forest soil is frequently too expensive to plow or grubefore planting. However, I am not expert on forest planting. Forest soil is frequently too expensive to plow or grub up

Mr. Kellogg. Mr. Ziegler is giving you what is the common

knowledge among the members of the Forest Service.

Mr. Ziegler. I have been engaged in planting, but of late years my work has not been planting. We have set out trees in the sand hills of Nebraska for, I think, about \$2.50 a thousand under the best circumstances, but there the planting was very easy.

The Scotch pine is growing out there, and we have jack pine trees

out there as high as a man that were planted in 1903.

The CHAIRMAN. I wish you could plant that whole country.

Mr. Ziegler. This is an experiment. We failed with western yellow pines, planting the seedlings from the nursery out on the hills. They are making a second attempt, planting the transplants.

The CHAIRMAN. That makes a rather expensive system.

Mr. Ziegler. More expensive than the other, although in that

locality it can still be done within reason.

The CHAIRMAN. Ordinarily you would have to prepare the ground somewhat unless you have very rocky ground, and then not very fast planting.

Mr. Kellogg. As a general proposition, some preparation of the ground is necessary, if it is a prairie country like Illinois. If it is a sandy country, like the sand hills of Nebraska, it will blow away after you have got it plowed. I think some white-pine planting has been done, setting them out without any preparation of the ground.

(Thereupon, at 1.30 o'clock p. m., the committee took a recess until 2 o'clock p. m.)

## Mr. Ziegler submitted the following table:

#### RED SPRUCE, DIAMETER GROWTH, PISCATAQUIS COUNTY, ME. 6

Age.	Diameter breast high.	
	Coming up under shade. b	Coming up with fair light con- ditions, Spruce slope, quality IL c
	Inches.	Inches.
20 years		0.6
30 years		2.4
40 years		41
60 years		5.3
60 years		6.2
70 years	* : = : = :	6.8
80 years		
90 years	-1 ===	
100 y ears	• • • • • • • • • • • • • • • • • • • •	
110 years		
120 years		
130 years	. 49	
140 years	5.5	
160 years		
160 years		
170 years		
180 years	. 83	
190 years		
200 years	9.7	
**************************************	- ;	

Maine Forest Study, R. S. Hosmer, 1902. Great Northern Paper Company, H. Grinnell, 1902.
 Basis: Decade measurements on 274 1-2-foot stumps 112 to 300 years old.
 Basis: Decade measurements on 39 4.5-foot stumps 49 to 197 years old.

#### AFTERNOON SESSION.

Tuesday, December 22, 1908.

The committee reconvened at 2 o'clock p. m., Hon. James R. Mann (chairman) presiding.

#### STATEMENT OF MR. E. A. ZIEGLER-Continued.

The CHAIRMAN. I collected a number of cross sections and gave them to you to mark the ages and diameters. I have one here marked "No. 2," on which you have marked the number of years of growth to a certain diameter, 38 years of growth. That is what that is intended to represent, is it not, 38 years of growth [indicating sample]?

Mr. ZIEGLER. Yes, sir.

The CHAIRMAN. To that diameter?

Mr. Ziegler. To that diameter; that is correct. The CHAIRMAN. Have you the diameter there?

Mr. ZIEGLER. I have the diameter of this section here as 3.35 inches, but I have it marked "8-D," which is off the same piece as No. 2, and I have given the age as 40 years.

'I he Chairman. And have you the diameter marked on No. 2? Mr. ZIEGLER. I have not. I have this section here which I took as indicative for the four pieces.

The CHAIRMAN. On No. 8 you have, then, marked the age of 40 years at a diameter of how much?

Mr. Ziegler. 3.35 inches.

The CHAIRMAN. 3.35 inches. That is a black spruce taken from the mill at Watab, Minn.

Mr. ZIEGLER. Yes; it is identified as black spruce.

The CHAIRMAN. No. 6 is also a black spruce obtained at the Watab mill. You have here the age marked at 92 years for what diameter? Mr. ZIEGLER. That is identified as black spruce, and it gives the diameter at 3.58 inches; that is the average diameter.

The CHAIRMAN. No. 9 is also a black spruce from the same mill.

Mr. Ziegler. That is 101 years old, and 5 inches in diameter. That
incide of the bark of course the bark is not included.

is inside of the bark, of course; the bark is not included.

The CHAIRMAN. Part of these specimens have been rossed, but this No. 9 has not been rossed or peeled. That is the actual age?

Mr. Zhairman Of the section

Mr. Ziegler. Of the section.
The Chairman. Of the section?

Mr. Ziegler. Yes.

The CHAIRMAN. Of No. 12 you have the age marked at 75 years. Mr. ZIEGLER. The diameter of that is 7.45 inches, and it is identified as a white spruce.

The CHAIRMAN. Do you really think it is a white spruce?

Mr. ZIEGLER. I can not tell the two species apart in that shape. The dendrologist identified it with the microscope as a white spruce. Whether the difference between them is enough to identify it absolutely as a white spruce instead of a black spruce, I do not know.

The CHAIRMAN. That also came from the Watab mill. I rather think it is the same. It might be a white spruce, I suppose. No. 15

is from the same mill. The age is marked at 63 years.

Mr. Ziegler. That is also identified as a white spruce, and has a

diameter of 10.46 inches.

The CHAIRMAN. The age of No. 17 is marked as 49 years. That was a specimen taken from the Muskeg, not from the mill.

Mr. ZIEGLER. That is identified as black spruce. It is 1.15 inches

in diameter.

The Chairman. No. 18 also was cut from the Muskeg. That is marked as being 39 years old.

Mr. ZEIGLER. That is identified as a black spruce, with a diameter

of nine-tenths of an inch.

The CHAIRMAN. No. 19 is also cut from the Muskeg. The age is 113 years.

Mr. Ziegler. That is identified as black spruce. The diameter is

2.48 inches.

The Chairman. No. 21 was obtained at the mill of the Northwest Paper Company, at Cloquet, Minn., age, 79 years.

Mr. ZIEGLER. That is identified as a black spruce, and the diameter

is 3.7 inches.

The CHAIRMAN. No. 22 is also from the Northwest Paper Company. The age is marked at 80 years.

Mr. ZIEGLER. That is identified as black spruce, with a diameter of

5.08 inches.

The CHAIRMAN. No. 24 is from the Northwest Paper Company. The age is 74 years.

Mr. Ziegler. No. 24 is identified as a white spruce, with a diameter of 8 inches.

The CHAIRMAN. No. 25 is from the same mill, with the age marked

at 101 years.
Mr. Ziegler. That is identified as a white spruce, with a diameter

The CHAIRMAN. No. 26 is from the Northwest Paper Company, with the age marked at 41 years.

Mr. Ziegler. That is identified as a white spruce, with a diameter

of 11.1 inches.

The CHAIRMAN. I take it that that has made an unusually good, rapid growth.

Mr. Ziegler. An unusually rapid growth.

The CHAIRMAN. No. 27 was obtained from the Wolf River Paper and Fiber Company of Wisconsin, which obtains most of its pulp wood from the farmers in that locality, and this may have come from this source. You have only counted out on that piece as far as 37 years. What is the diameter at that age?

Mr Ziegler. 4.8 inches.

The CHAIRMAN. That is one of those pieces that Mr. Sims was wondering about, where it has grown nearly all on one side.
Mr. Ziegler. Yes.

The CHAIRMAN. No. 28 is also from the Wolf River Paper and Fiber Company of Wisconsin. You counted out as high as 57 years.

Mr. ZIEGLER. That is identified as a black spruce, and the diameter

is 4.1 inches, as far as it was counted.

The CHAIRMAN. It is identified as a black spruce, but I doubt whether it is correct.

Mr. ZIEGLER. What do you think it is?

The CHAIRMAN. White spruce. I do not think they have any black spruce over there. I suppose it is very difficult to distinguish a mere cross section.

Mr. ZIEGLER. Yes; I think perhaps one of the most distinguishing

features is the rate of growth.

The CHAIRMAN. Yes. This has grown very slowly. You have

this marked "Suppression or injury," after it reached 57 years. Undoubtedly it grew very slowly after that time.

Mr. Ziegler. Yes; there was some cause for the slow growth beyond the fifty-seventh ring. We do not know what it is, of course. Suppression would do it. The breaking off of the top by storm or snow or something of the kind would do it. Something in the condition of the ground might do it. Evidently there was some sudden cause to change the rate of growth from a rapid to a very slow one. Suppression, as a rule, is a more gradual change. It comes on gradually, while from accidents like the breaking off of the top or something like that there would be a more sudden change. Of course, it is speculation as to what it was, but it is evident that there was some change of the conditions.

The CHAIRMAN. It may have lost a limb.

Mr. Ziegler. Possibly.

The CHAIRMAN. Because on the other side it never did grow very rapidly. There is not very much difference.

Mr. ZIEGLER. The suppression, or whatever it was, really would be

marked back there at 57 years.

The CHAIRMAN. Are you sure that is a spruce? Mr. Zeigler. That is what it was identified as.

The CHAIRMAN. On No. 29 you have counted out as high as 99 years; and what was the diameter at that age?

Mr. ZIEGLER. No. 29 is identified as a larch—tamarack. The

diameter of that at 99 years is 4.15 inches.

The CHAIRMAN. I should question that identification, too. I do not believe they have any larch over there.

Mr. ZIEGLER. They have larch in Wisconsin. In this particular

region, I do not know.

The CHAIRMAN. I thought we had a memorandum that showed what all these were. Of course, these were all rossed when we picked them out, but I am inclined to think that none of these were larch. No. 39 you counted out as far as 49 years of age.

Mr. Zeigler. It was also identified as larch, with a diameter at

49 years of 3 inches.

The CHAIRMAN. We did not have a stenographer there, but Mr. Stafford made some notes. I do not believe they have any tamarack in that mill. What is No. 32?

Mr. Zeigler. That is identified as a white spruce.

The CHAIRMAN. You only counted out as far as 40 years. What was the diameter on the basis of 40 years.

Mr. Zeigler. 6.8 inches.

The CHAIRMAN. It grew much more slowly after that time, this specimen did, until it reached a greater age, and then it commenced to grow more rapidly again. No. 33 is also from the Wolf River Paper Company. You counted out on that as far as 113 years.

Mr. Ziegler. No. 33 was identified as a larch, with a diameter at

113 years of 10.06 inches.

The CHAIRMAN. I am inclined to think it is a white spruce, notwithstanding the identification. Those people generally know the difference, easily enough, between spruce and tamarack, and I think they do not aim to use tamarack in that mill.

Mr. ZIEGLER. I find, however, that in the lumber concerns jack

pine often passes as white pine in the lumber pile.

The CHAIRMAN. Oh, yes; but they do that purposely.

Mr. Ziegler. They would not acknowledge it.

The CHAIRMAN. They acknowledge it to us right along; they find good jack pine mixed in with white pine, and they sometimes run it in as white pine.

Mr. ZIEGLER. But lots of the men on the outside by examining the grain could not as easily tell a larch, at least, from a spruce, as they

could a pine from a spruce.

The Chairman. Of course when all of these samples go to the mill they have the bark on them.

Mr. Ziegler. Yes.

The CHAIRMAN. These are all samples we picked up in the mill that had been rossed in the mill; but as they go into the mill they all have their bark on.

Mr. ZIEGLER. Would they, however, reject a piece of tamarack if

it came along, since it contains no pitch?

The CHAIRMAN. I do not know that they would, but they are rather particular at this mill about what they use, and they get their spruce from the people in that locality as a rule.

Mr. ZIEGLER. If you wish, I can take back those specimens that you are doubtful about, and I can have them put under the compound microscope. The cells of the wood will tell the difference between a spruce and a larch and give an absolute identification. Between the different species of spruce there is more difficulty, because the structure there is so similar.

The CHAIRMAN. I do not know that it is very important, except to determine the use of the larch for ground wood. What do they make there at the Wolf River Mill? They make sulphite, four grinders: ground wood and sulphite. I think we got those from the

ground-wood mill. However, I am not absolutely certain.

Mr. Kellogg. We would be very glad to examine these again,

and be definite about it.

The CHAIRMAN. I think probably I will write to the man there

and ask him if he knows he is using larch?

Mr. ZIEGLER. He might not know that an occasional piece goes through. He might say that he is not, and yet there might be an occasional piece go through.

The CHAIRMAN. That might be, but there are three specimens here marked as larch that we picked up at random at the mill.

Mr. ZIEGLER. That is rather a large proportion of larch if they are

not using larch.

The CHAIRMAN. Here is a piece picked up at Johnsonburg in a forest that had never been cut over, so they stated. This is No. 35. It was a small tree under large trees. You have it marked dogwood. When we cut it we supposed it was a hard maple. I do not think it is very important. At any rate, the age is marked at 84 years, with a diameter of what?

Mr. ZIEGLER. Four and four-tenths inches.

The CHAIRMAN. It is a mighty pretty piece of wood, whatever it

Mr. Ziegler. They use dogwood for bobbins, I think, and for furni-

ture, occasionally, when it gets large enough.

The CHAIRMAN. No. 36 is a yellow birch which was cut in clear second-growth timber where evidently the original forest had been quite thoroughly cleared off, and it was growing quite dense; that is, not the birch, but the trees of different varieties. You have the age of that marked as 22 years.

Mr. Ziegler. The diameter was 3.1 inches. That was identified

as yellow birch.

The CHAIRMAN. That we cut at Lanigan Run, Johnsonburg. No. 35 we cut under the shade at Buck Run, Johnsonburg. Thirty-seven is a beech.

Mr. Ziegler. I have 37 down here as a beech.

The CHAIRMAN. It was cut under the same conditions as No. 36.

Mr. ZIEGLER. That is 34 years old; 2.6 inches in diameter.

The Chairman. No. 38, hard maple, 23 years old. What was the diameter of that?

Mr. ZIEGLER. 2.4 inches. We identified it as hard maple.

The CHAIRMAN. Thirty-nine is 20 years of age; hemlock cut under

the same conditions as No. 36. Is that what you have it?

Mr. ZIEGLER. No. 39 is identified as hemlock, 20 years old, 1.8 inches in diameter. No. 40 is identified also as hemlock, 20 years of age, 1.6 inches in diameter.

They came out the same number of years. It looks as if they might have come from the same tree at slightly different points. Of course they could not have been adjacent, because they are slightly different in size.

The CHAIRMAN. Then they did not come out of the same tree. because I cut them down. I just took a small piece out of the tree. cut No. 40 down. That was growing in low ground along the west branch of the Clarion River at Johnsonburg. That is 20 years of age. But the other, No. 39, was a hemlock, which was growing in the second-growth forest with the birch and beech and hard maple

samples.

This is 20 years of age. It was growing in a fairly thick secondgrowth forest, and it was cut down where the man who was with us was quite certain when we looked at that forest that it could not be over 8 or 10 or 12 years of age. I guessed it to be more. We had a man with us with an ax, so that when any dispute would arise as to the age of any one of these trees it was cut down; and I wanted to get the age of a hemlock tree there growing under those conditions and I had him cut that down for that purpose. Then afterwards I cut down the hemlock myself and just took a small piece out of it.

We have a lot more of these samples here. Could you send some

one up here to go over these?

Mr. ZIEGLER. Yes. You simply want the rings counted and the diameters measured as we have done with these others?

The Chairman. Yes.
Mr. Ziegler. You want no identification?

The CHAIRMAN. No. These are all marked as to what they are, and I guess they are identified sufficiently.

Mr. Kellogg. It says on these samples "spruce," but it does not

attempt to say what kind of spruce they are.

The CHAIRMAN. No. But they are all marked as to where they are from. Most of them are from Canada, I think. I guess they would all be the red spruce.

#### EXPERIMENTS WITH CORNSTALKS AND OTHER ANNUALS.

### STATEMENT OF MR. EDWIN SUTERMEISTER.

The CHAIRMAN. You are connected with the Bureau of Forestry? Mr. Sutermeister. Yes, sir.

The CHAIRMAN. What is your position?

Mr. Sutermeister. I am an expert. I have charge of the laboratory where we are conducting wood-pulp experiments.

The CHAIRMAN. Have you had charge of the experiments being conducted in connection with the Bureau of Plant Industry?

Mr. Sutermeister. Yes, sir.

The CHAIRMAN. Who is the gentleman over there who also has special charge?

Mr. SUTERMEISTER. Doctor Cobb.

The CHAIRMAN. Tell us about the experiments you have been carrying on; and, by the way, first, are these experiments that have been going on for years or are they experiments in connection with the appropriation made last year?

Mr. Sutermeister. They are in connection with the appropriation Which do you wish to hear about first, the cornmade last year. stalk experiments?

The Chairman. It is immaterial to me which you take up first.

Mr. SUTERMEISTER. Then, I will take up, first, the cornstalk experiments. The cornstalks we used were local growth, from Silver Springs, Md.

The CHAIRMAN. What kind of corn?

Mr. Sutermeister. The kind of corn I am not sure about. probably the ordinary field corn grown in this neighborhood. stalks were obtained by Mr. Sherwood.

The CHAIRMAN. Of Chicago?

Mr. SUTERMEISTER. Of Chicago.
The CHAIRMAN. Did he make the laboratory experiments?

Mr. Sutermeister. He was present when the first ones were made,

but has not been there during the latter part of the experiments.

The Chairman. He called on me in Chicago and told me that he had been conducting the experiments. That was last summer some time, or in the fall some time?

Mr. Sutermeister. Yes; he was here in the fall.

The CHAIRMAN. He thinks he has some special process, does he not? Mr. SUTERMEISTER. The special part that he has consists in a sepa-

rator for separating the long fiber from the pith.

The CHAIRMAN. I invited him to appear before the committee to testify, but he thought it might be at that time an injury to his business and the development of it, if he did appear, and he preferred not to; and while he did not decline, I did not feel that we ought to require him to testify.

Mr. SUTERMEISTER. We have made about 28 different cooks of this material under varying conditions. We have separated the long fiber from the pith, and I have samples here of each kind, both bleached and unbleached. The durations of our cooks have been from about two and one-half hours up to eight hours.

The Chairman. Describe to us the process that you used, from the

beginning until the end.

Mr. SUTERMEISTER. The cornstalks are put through a feed cutter to cut them into short pieces about an inch and a half long, and they are washed in a hogshead with a stream of water to get off field dirt.

The CHAIRMAN. With the leaves on or off?

Mr. SUTERMEISTER. The leaves and husks and all are left on. The entire plant is there, with the exception of the root and the ear. After washing, they are drained.

The CHAIRMAN. How do you wash them?

Mr. SUTERMEISTER. They are washed in a hogshead with water, sousing them up and down to allow the dirt to wash off and sink to the bottom.

The CHAIRMAN. You wash them with water only?

Mr. Sutermeister. Yes.

The CHAIRMAN. You wash them on the theory that the dirt will sink?

Mr. Sutermeister. Yes. As a matter of fact, we do not get a very thorough separation of dirt in that way.

The CHAIRMAN. You get the sand out?

Mr. Sutermeister. We get the sand out and the coarse dirt, but fine clay soil, which sticks to the stalk very tenaciously, will not be removed.

The Chairman. No. How much of a process is it to wash them? Mr. Sutermeister. It is not a very long process. As a matter of fact, in working the process commercially, I think it would not be necessary to wash them.

The CHAIRMAN. How do you cut them up, to begin with?

Mr. Sutermeister. With an ordinary feed cutter, such as is used on the farm for cutting ensilage.

The CHAIRMAN. Do you use a regular ensilage cutter?
Mr. SUTERMEISTER. Yes, sir; it is a small one. We do not run it by power, but it is a regular ensilage cutter, such as is used on a small scale on the farm.

The stalk after washing is allowed to drain a few moments to let most of the water drain off, and then we weigh out a sample of about 25 pounds which we use for the cook. That is placed in a small steel digestor. The digestor is about 30 inches in diameter and about 4 feet high. The top and bottom consist of cones. The cornstalk being placed in that, a certain amount of caustic-soda liquor is put in. The per cent of caustic soda is figured on bone-dry weight of the stalk.

The CHAIRMAN. What?

Mr. Sutermeister. It is figured on bone-dry weight, absolutely dry material that we put in there. We determine the moisture in the stalks as we put them in, in order to base everything on the absolutely It is the only scientific and absolutely satisfactory way to We run in the caustic-scda liquor and we add a certain amount of water to that in the digestor in order to get enough liquor to cover the stalk with the caustic-soda solution. Then the head is put on the digestor, the head being merely a cover to close the opening through which we put the stalks in, and we turn on steam pressure, live steam being blown directly into the digestor. The cooking is continued for varying lengths of time, from two and one-half hours to seven or eight

The CHAIRMAN. How do you determine the length of time?

Mr. SUTERMEISTER. We determine that to a certain extent by the quality of the stock that we desire, and also by the steam pressure which we use. A high steam pressure will complete the cook in a shorter time than a low steam pressure and will give practically the same results.

The CHAIRMAN. How high a steam pressure? Give us the actual

Mr. Sutermeister. I have cooked most of these cooks at 110 pounds steam pressure.

The Chairman. How long does it take?
Mr. Sutermeister. Two and one-half hours to three hours gives a very satisfactory result.

The CHAIRMAN. You spoke of the quality of the pulp that you desired being affected by the length of cook. How is that?

Mr. SUTERMEISTER. If it is not cooked long enough some of the fiber bundles in the stalk are not completely separated, and the fiber comes out what we call shievy.

The CHAIRMAN. What does that mean?

Mr. Sutermeister. It is a technical term applied to portions of the material that are not thoroughly cooked and broken apart. For instance, in cooking wood, it would be applied to little slivers of wood which have escaped the cooking action, and in the same way it applies to pieces of the cornstalk which have not been thoroughly disintegrated. I can show it to you best, perhaps, in some of these specimens.

The Chairman. No; I know what you mean.

Mr. Sutermeister. I think you have the worst one right here [indicating sample]. We would consider that a shievy. Those long pieces show unsatisfactory cooking conditions in some part of the process. Now, after the cook has gone for the length of time which we decided on before starting the cook, the stock is blown out through a 2-inch pipe into a pit with a perforated false bottom. The fiber stays on the top of the false bottom and the liquor drains through, and after determining its volume and saving a sample for analysis is run to waste. The stock is washed in this pit and is then pressed and sampled in order to determine the moisture in it. In this manner we determine the amount of the dry fiber present. After doing that we screen it in order to separate the shievies and uncooked portions from the good fiber, and then in most cases we run it through Mr. Sherwood's separator in order to separate the pith from the long fiber, and then it is made up into sheets on a small hand mold in order to get the stock into condition where we can ore it. That is, briefly, the process that we put the stalks through. Mr. Sims. How much fiber do you get out of a ton of stalk? store it.

Mr. Sutermeister. From a ton of stalks we should get about 850 pounds of fiber. Of that 850 pounds just about two-thirds consists of this pith or short fiber. The other third is long fiber.

The CHAIRMAN. There is not much fiber to the pith?

Mr. Sutermeister. No; it is very short fiber. It is almost all globular cells.

The CHAIRMAN. It does not look to me as though it had any fiber

to it at all, in this sample. There may be a little fiber.

Mr. Sims. What is this we have here, the paper or the pulp?

Mr. SUTERMEISTER. That is the pulp, or rather it is pith pulp made up into sheets. It could not be called paper. The pith would have to be made into specialties.

Mr. Sims. What is that [indicating sample]? That is paper, is it

not?

Mr. Sutermeister. No, sir; this is bleached pulp. There [presenting another sample] is the long fiber in the unbleached condition, and here are some of the sheets which have been bleached.

Mr. Sims. This is the pulp, then, and not paper?

Mr. Sutermeister. Yes. We make no finished paper down there whatever.

Mr. Sims. So that you have nothing to show what kind of paper is made out of cornstalks?

Mr. Sutermeister. No, sir.

The CHAIRMAN. Now, how much space does a ton of cornstalks

Mr. Sutermeister. I could not tell you, sir.

The Chairman. How many cords are there in a ton?

Mr. Sutermeister. I do not know. I presume if the stalk was baled under heavy pressure you could get a ton of stalks in a fairly

small space.

The CHAIRMAN. Take ordinary cornstalks that are not baled, how many cords would there be in a ton? That is really the practical proposition in the question of making paper out of cornstalks.

Mr. Sutermeister. It would be merely a rough guess if I told you.

I should say it would be something over three cords.

The CHAIRMAN. And out of that ton you would get about as much pulpy material from the digestor, or not quite as much, as you would from a cord of wood?

Mr. Sutermeister. Not quite.

The CHAIRMAN. About 850 pounds?

Mr. Sutermeister. Yes.

The CHAIRMAN. Of which two-thirds is pith?

Mr. Sutermeister. Approximately. The Chairman. When it is separated?

Mr. Sutermeister. Yes.

The CHAIRMAN. That would leave something less than 300 pounds of fiber from a ton of cornstalks?

Mr. Sutermeister. Yes.

The CHAIRMAN. From wood you would get a thousand pounds from a cord?

Mr. SUTERMEISTER. It varies with the process. The soda process

on poplar wood yields about 1,200 pounds to the cord.

The CHAIRMAN. I was under the impression that it yielded on the average about a thousand pounds, about the same as the sulphite process; but if it is 1,200 pounds under the soda process, for a ton of wood you would get between 500 and 600 pounds, probably?

Mr. SUTERMEISTER. It would be a little more than that. I think

a cord of poplar wood weighs about 3,000 pounds.

The CHAIRMAN. A cord of spruce wood weighs about 4,200 pounds

before it is dried, I think.

Mr. Sutermeister. Have you any figures on the weight per cord? Mr. Kellogg. No; I do not know just how much the weight per cord is. It depends very largely on the seasoning conditions, of course.

The CHAIRMAN. Yes; but a cord of spruce wood weighs about 4,200 pounds. As I remember it, it weighs about 4,200 pounds. Of course, the practical question in relation to cornstalks is the cost of the production. No one doubts that you can make paper out of cornstalks. You can make paper out of orchids, I suppose.

Mr. Sims. This dark-colored stuff is made from the pith [indicating

samples]?

Mr. Sutermeister. Yes.

Mr. Sims. Will that make paper?

Mr. Sutermeister. It will make a certain sort of paper.

The CHAIRMAN. I do not think it would run over a paper machine such as they have now.

Mr. Sims. Could it be used by mixing it with other fibers, to make

a useful quality of paper?

Mr. Sutermeister. I think so.

The CHAIRMAN. Judging solely by the looks of it and tearing it, it has not nearly so much fiber in it as ground wood has.

Mr. SUTERMEISTER. It has not.

The CHAIRMAN. There are only a few kinds of ground wood that will hold together to run over a wet machine.

Mr. SUTERMEISTER. Did Mr. Sherwood show you any of his

samples?

The CHAIRMAN. No; he did not. That is, I do not think he did. There is no doubt that he can make the conversion. The question is as to the expense of it. Personally, I never have taken any stock in the experiment at all. I would like to be convinced to the contrary, but I believe it will cost more to assemble the cornstalks than it does to make ground wood.

Mr. SUTERMEISTER. I have no figures on the cost of assembling or

handling of the stalks.

The CHAIRMAN. You have not made any sulphite out of this?

Mr. Sutermeister. No, sir.

In the soda process the caustic soda is the strong alkali that they use for making soap.
Mr. Sims. What they call condensed lye?

Mr. Sutermeister. Yes.

Mr. Sims. I thought that was a potash?

Mr. SUTERMEISTER. Caustic soda and caustic potash are very similar. They would serve the same purpose in this work. This pith material has a certain value.

The CHAIRMAN. What for?

Mr. Sutermeister. It can be made into a grease-proof paper. I have made this into paper that I wrapped up machine oil in and left it standing overnight, and it had not soaked through in the morning.

Mr. Sims. Paper made from the pith?

Mr. Sutermeister. From the pith; yes, sir.

The CHAIRMAN. The question is whether you can make it into anything in the way of a sheet with any machinery that is now known.

Mr. SUTERMEISTER. You can run it over a Fourdrinier machine.

The CHAIRMAN. Have you tried it?

Mr. Sutermeister. Yes. The CHAIRMAN. Where?

Mr. SUTERMEISTER. At the Cumberland mills.

The CHAIRMAN. This pith?

Mr. SUTERMEISTER. Pith from cornstalks. Not this.

The CHAIRMAN. What did they produce? Have you any samples of that?

Mr. SUTERMEISTER. No. sir; not with me.

The CHAIRMAN. Have you any at all?

Mr. SUTERMEISTER. I think I have; yes, sir.

The CHAIRMAN. If you have been running it over a Fourdrinier

machine, I should think you would want to have a sample of it.

Mr. SUTERMEISTER. I can probably find some at the house and

bring it to you in the morning.

Mr. Sims. Some of the paper made from the pith? Mr. SUTERMEISTER. From the pith; yes, sir.

Mr. Sims. Without the intermixture of any other substance?

Mr. Sutermeister. Yes, sir.

The CHAIRMAN. You might do that. They seem unable to successfully run the ground wood by itself over a Fourdrinier machine and make it work, and it has a great deal more fiber than this, and the fiber is what holds it together.

Mr. Sutermeister. Yes.

The Chairman. It is a question whether you can run it over.

Mr. Sutermeister. We have made a continuous web of it.

The CHAIRMAN. What length web?

Mr. SUTERMEISTER. I could not tell you the length. They reeled it up.

The CHAIRMAN. Have you been in the paper mills very much?

Mr. SUTERMEISTER. I worked in one for eight years.

The Chairman. Then you ought to know all about it.

Mr. Sutermeister. Yes.

Mr. Sims. Practically, as well as theoretically.

The CHAIRMAN. Yes.

Mr. Sims. Have you some paper bleached and unbleached?

Mr. SUTERMEISTER. Yes, sir; bleached.

Mr. Sims. Have you some of the unbleached paper made from the pith?

Mr. Sutermeister. Yes.

Mr. Sims. Then we ought to have it.

Mr. Sutermeister. The paper was made back in 1903.

The CHAIRMAN. You can make cellulose fiber out of any vegetable that grows, I suppose? All vegetables have some cellulose fiber in them?

Mr. Sutermeister. Yes, sir.

The CHAIRMAN. The question is as to the amount you can get, and as to the cost.

Mr. SUTERMEISTER. And the quality of the material after it has been obtained.

The CHAIRMAN. Yes. You have not proceeded far enough to make any estimate, I suppose, of the cost of making fiber from cornstalks?

Mr. Sutermeister. No, sir. I would not be willing to estimate on it quite yet. I presume the Bureau of Plant Industry is going to get statistics of the cost of collecting the material. That is up

to them, is it not?

Mr. Kellogg. Yes; they furnished the material to our laboratory, Mr. Mann, that we are testing. We have not got far enough along yet to make a definite report. The experiments are running right straight along. This is some of the stuff that has been recently run through.

The CHAIRMAN. Unless you find something that these pith sheets can be used for, or the pith can be used for, of course the process is

wholly impracticable.

Mr. SUTERMEISTER. Yes. Will you notice the folding qualities of this sheet I have here. Crease it as hard as you can, and you can hardly make it crack at all. If you will try this one, this has a little more of the long fiber in it [indicating sample].

That will probably make very good material for folding box boards, or something of that sort, where color is of no importance. The CHAIRMAN. Here is a pith fiber sheet marked "Pith with a

little fiber. Soda cook, seven hours."
Mr. Sutermeister. Yes.

The CHAIRMAN. Does the pith have to be cooked longer?

Mr. Sutermeister. They are all cooked together. The separation takes place after cooking.

The CHAIRMAN. That is what I supposed.

Mr. Sutermeister. Yes.

The CHAIRMAN. What makes the difference? What is the cause of cooking some of these seven hours and some of the others two and

three-quarters and three hours?

Mr. SUTERMEISTER. We have tried various lengths of time and varving amounts of caustic soda and varying pressures in order to see which process gave us the best fiber, the highest yield, or was the most advantageous all around.

The CHAIRMAN. Take this marked "Pith with a little fiber;" does

that mean that that is the way it came from the digestor?

Mr. SUTERMEISTER. No, sir; the fiber and pith were separated first and then we put back a small proportion of long fiber with the pith.

The CHAIRMAN. What is the material that comes out before they

are separated? Have you any of that here?
Mr. SUTERMEISTER. No, sir; I have not any of it here; we have not made up any sheets in that way.

The CHAIRMAN. Why not?
Mr. SUTERMEISTER. Well, I could not see any use in it, because when it is with the pith, the long fiber is too hard for any kind of paper I know of.

The CHAIRMAN. What do you mean?

Mr. SUTERMEISTER. It rattles [illustrating with sample]. That is what we call a hard paper. That long fiber which you have there is a soft paper.

The CHAIRMAN. Yes; and it is the pith that makes the rattle.

Mr. Sutermeister. Yes; but when the two are mixed the product

The CHAIRMAN. This pith tears very easily, and it has not much Supposing you left the fiber in it, it would not tear so easily, fiber. of course.

Mr. SUTERMEISTER. No, sir; this would represent more nearly the condition of the original fiber, but that has less of the long fiber than the full product as it comes from the digester.

The CHAIRMAN. The fiber itself which you get, which I suppose is

almost clear cellulose fiber-

Mr. Sutermeister. Very nearly.

The CHAIRMAN (continuing). Is much like sods fiber produced by any process?

Mr. Sutermeister. Yes, sir. There is nothing remarkable about

that long fiber.

The Chairman. But the amount you get is not very large, and the pith you get in sheets when dried is altogether too stiff and hard for any ordinary paper?

Mr. Sutermeister. Yes, sir.

The CHAIRMAN. That is, for writing or printing paper.

Mr. SUTERMEISTER. The pith would probably have to be made into specialties.

The CHAIRMAN. The question is, how far there is a demand for

specialties. This is very stiff, but not very tough.

Mr. Sutermeister. No, sir; it is not very tough in tearing.

The CHAIRMAN. If it was thick enough it might be made in the form of a board; but would not that be rather an expensive process

to make boards?

Mr. Sutermeister. I think so. I think it could be made into a semitransparent grease-proof specialty of some sort. You have seen these transparent papers which are used for wrapping up bottleschemical bottles especially. A great many times when you buy a bottle of chemical from the druggist, patent medicine or something of that sort, you find it wrapped in a semitransparent wrapper.

The CHAIRMAN. Yes; that is a complete semitransparent wrapper

and is a very high grade of specialty.

Mr. Sutermeister. Yes, sir.

The CHAIRMAN. But it has to be somewhat tough?

Mr. Sutermeister. Yes.

The CHAIRMAN. Here is a wrapper that is not semitransparent, but is partially transparent, which would also hold grease.

Mr. Sutermeister (after examining paper). Yes, sir.

The CHAIRMAN. Although I think grease would go through it, as grease would go through this [indicating sample of pith]. Of course, they now have lots of board in which they can put grease for a short time.

Mr. Sims. I would like to ask one question just for information. do not know that it bears particularly on what we are speaking of now. What is the material that is used in trunks and suit cases that are called "fiber trunks" or "fiber suit cases?" They have them now and they are expensive; high-priced, but very durable. They are called "fiber" trunks or suit cases.

Mr. Sutermeister. I do not know what it is. I have never hap-

pened to see any of them.

The Chairman. Of course, you can make an extremely strong paper out of sulphite?

Mr. Sutermeister. Yes.

The CHAIRMAN. You can make a stronger paper out of sulphite than out of soda, so far as the strength is concerned, I suppose; although I am not sure about that.

Mr. SUTERMEISTER. This very strong so-called "Kraft" paper is made out of soda fiber. The percentage of bleach which I have marked on here is the amount required to bring the fiber up to a standard, made by taking six different commercial fibers and mixing them in equal proportions and making up sheets in this same form. other words, it is a compound commercial color.

The CHAIRMAN. It is what?

Mr. Sutermeister. A sort of composite commercial color.

The Chairman. I do not understand what you mean by that.

Mr. Sutermeister. I mean we take six samples of commercial bleached fiber, such as is sold in the market, and mix the fibers in equal proportions, and then we make up sheets of this same form on our little hand molds and use those sheets as a standard color.

The CHAIRMAN. This does not look as though that had very much long fiber in it—not as much as hemlock sulphite.

Mr. SUTERMEISTER. It is not as long as hemlock.

The CHAIRMAN. What else have you here?

Mr. SUTERMEISTER. I have some sheets of cotton stalk here. Here, first, is some tule grass, some that Doctor Cobb sent over and wanted us to try.

Mr. Sims. What is tule grass?

Mr. Sutermeister. It is a grass growing in California. There is probably not enough of it to ever amount to anything as a paper stock. This is the pith and this is the long fiber [indicating samples].

The CHAIRMAN. What is the process of separating the fiber from

the pith pulp after the cooking process?

Mr. Sutermeister. We have a trough which consists of perforated sheet metal, with very fine perforations, and in that trough, fitting closely to the sides, there is a helicoid conveyer, which turns the pulp over and over in passing through the trough, and while the pulp is turning in that way a stream of water is sprayed on it, and the long fiber is carried on by the conveyer and the short fiber is washed out from it and passes out through the perforations in the base of the trough, and is run off into a separate tank.

The Chairman. I notice in these samples of the cornstalk that you have here your long fiber seems to be of much lighter color than

the pith.

Mr. Sutermeister. Yes, sir; very much lighter.

The CHAIRMAN. I would suppose it would be just the opposite.

The pith is a white substance and the cornstalk is not.

Mr. Sutermeister. The pith apparently dries down to this horny material, and I think the physical condition of it has a great deal to do with the color. You can notice the difference in those two sheets [indicating samples]. You can also notice the difference along the edge here and in the center. I do not know why there is that difference in the color, but I think it must be due to a different physical condition of the pith.

Mr. Sims. Let us go on to the cotton stalk, if you are through with this. Let Mr. Sutermeister make his statement about cotton stalks.

Mr. Sutermeister. We put the cotton stalk through about the same process that we do the cornstalk. It has to be crushed rather fine in order to get sufficient penetration of the liquor for good cooking.

Mr. Sims. How do you get it; run it through the feed cutter?

Mr. Sutermeister. We have a little chopper, which has a knife moving up and down, and we feed the stalks into it endwise. It is a crude arrangement. It ought to be passed through crushing rolls in order to split the stalk as well as cut it. After treating it in that way the process is practically the same as that with the cornstalk. The Chairman. How about the percentage of soda in the cook?

Mr. Sutermeister. The amount of caustic soda required is considerably more than that required for cornstalk. It takes about 30 per cent of the weight of cotton stalks in order to give it a satisfactory cooking. It requires a much harder treatment than cornstalks. It takes about six to nine hours at 90 to 110 pounds steam pressure,

and the yield varies from 35 to about 43 per cent.

Mr. Sims. No pith results?

Mr. SUTERMEISTER. There is no pith.

Mr. Sims. It is all fiber?

Mr. SUTERMEISTER. It is practically all fiber. Some of the fiber is very short.

Mr. Sims. How many tons of cotton stalk will it take to make 1

ton of pulp?

Mr. Sutermeister. It would take about 21 tons. Mr. Sims. And then the pulp is all fiber pulp?

Mr. SUTERMEISTER. Practically all fiber pulp; yes, sir.

The CHAIRMAN. There is not very much long fiber about that [indicating sample].

Mr. Sutermeister. No; the fiber of cotton stalk is very short. The CHAIRMAN. There is not as much long fiber in that cotton

stalk as we find in lots of the ground wood.

Mr. SUTERMEISTER. The cotton stalks that we have had to work with have been old and somewhat attacked by rot.

Mr. Sims. They were not fresh stalks.

Mr. Sutermeister. They were not fresh stalks; no, sir; and I think possibly that may have had something to do with the low yield and the poor quality of the product.

Mr. Sims. You hardly think, then, that the cotton-stalk test was

a fair test?

Mr. Sutermeister. No, sir; I do not.

Mr. Sims. And the average, therefore, is not reliable?

Mr. Sutermeister. It is not to be relied on conclusively. We must make more tests before we can pass satisfactory judgment on it.

The CHAIRMAN. You say as to cotton stalks that it takes about 21 tons of stalks to make 1 ton of cotton fiber by the soda process?

Mr. Sutermeister. Yes, sir.

The CHAIRMAN. How many cords does it take under ordinary, usual conditions, not pressed, to make a ton of cotton stalks?

Mr. Sutermeister. The material is just about as bulky as corn-

stalks. It is branchy and will not pack close together.

Mr. Sims. It is really more difficult to handle by way of shipping, and in assembling, than cornstalks?

Mr. SUTERMEISTER. Yes; it would not adapt itself to baling at all,

I think. Cornstalks might be baled.

Mr. Sims. But it might be ground and shipped in the ground state? Mr. Sutermeister. Yes.

Mr. Sims. In the form of sacks or bales in that way?

Mr. Sutermeister. Yes, sir; you could pack it vey closely then. The Chairman. How would you bale cornstalks?

Mr. Sutermeister. I think they could be baled in a machine similar to a hay baler.

Mr. Sims. You can shred cornstalks and ship them?

The CHAIRMAN. You could shred them easily enough and ship them.

Mr. Sims. Then you could use the shredded stuff?

Mr. Sutermeister. It has got to be shredded or cut or crushed

before we can use it. The CHAIRMAN. Yes; but that would involve a shredder or cutter in every place where the cornstalks were first put up, and shredded cornstalks easily heat and ferment, which would probably greatly deteriorate them.

Mr. Sims. It involves it, anyway, if you feed them. They do have

those machines on every large farm, anyway.

Mr. SUTERMEISTER. There is one point in regard to cornstalks that I forgot to mention. We can take the cornstalk after it is packed into the digester, and extract with water, under pressure, and get out an extracted material which can be used after evaporation as a cattle That is, we evaporate the extract which we obtain to a semiliquid state and mix it with some ground feed, and we get nearly all of the value of the food which is in the cornstalk.

The CHAIRMAN. Now, let us see; when you run these through caustic soda the caustic soda eats up the intercellular matter, does

Mr. Sutermeister. Yes; and changes its chemical condition entirely.

The CHAIRMAN. How do you get that back?

Mr. SUTERMEISTER. We extract with water before we add the caustic soda.

The CHAIRMAN. Oh, you wash it first for the food substance before putting in the caustic soda?

Mr. Sutermeister. Yes; and then pack it into the digester.

The CHAIRMAN. You first pack it into the digester?

Mr. Sutermeister. Yes.

The CHAIRMAN. And then you do what?

Mr. Sutermeister. We add water and turn on the steam, and extract under a slight pressure—only 15 or 20 pounds—and draw off the liquid. It contains a large portion of the soluble matter in the cornstalk.

The CHAIRMAN. How much of that liquid will you get in a ton of

cornstalks?

Mr. Sutermeister. We get from a ton of cornstalks about 300

pounds of dry matter.

The CHAIRMAN. What does that dry matter consist of, chemically? Mr. Sutermeister. It is in large proportion glucose—sugars. There is about 14 to 15 per cent ash, about 40 per cent glucose, and there is 3 or 4 per cent of other sugars. There is about 9 per cent of proteid matter.

Mr. Sims. That is a pretty good foodstuff? Mr. Sutermeister. Yes, sir.

Nothing of that sort can be derived from Mr. Sims. For cattle.

the cotton stalk, can it?

Mr. Sutermeister. Not that I know of. There is, I believe, a medicinal extract from roots of cornstalks, but I do not imagine the demand for it would be very great.

Mr. Sims. Do you know what the medicinal matter is?

Mr. Sutermeister. No, sir; I do not.

The CHAIRMAN. Do you use the roots of cornstalks?

Mr. Sutermeister. No, sir.

Mr. Sms. You use the root of the cotton stalk, though?

Mr. Sutermeister. Yes, sir.

The Chairman. Have your experiments led you to believe that you can reduce a ton of cornstalks or cotton stalks to pulp by the soda process for less than you can reduce a ton of wood for?

Mr. Sutermeister. With cotton stalks, I should say no. For

cornstalks, I should say yes.

The Chairman. How much less? What do you figure it costs per ton?

Mr. Sutermeister. I could not tell you the cost. The cotton stalks require over 30 per cent of caustic coda, whereas we can treat the cornstalks with 18 per cent. Poplar wood requires 25 per cent.

The CHAIRMAN. Are you figuring upon the soda being lost?
Mr. SUTERMEISTER. No, sir; recovered. The soda can be recovered just as well with cornstalks as it can with wood.

The CHAIRMAN. Yes, I understand; but in your experiments you

do not recover it?

Mr. Sutermeister. We have not recovered it; no, sir.

The CHAIRMAN. What other experiments have you made?

Mr. SUTERMEISTER. We have tried some rice straw. The rice straw has a pith which is rather finer than that of the cornstalk, and the product is very markedly different. There are the piths from rice straw. Here are three samples that are made up in a little different form [exhibiting samples].

The Chairman. Why do you say it is markedly different from the

cornstalk piths?

Mr. SUTERMEISTER. It is not so hard and horny.

The CHAIRMAN. This is not quite so thick as the other.

Mr. Sutermeister. No, sir.

The CHAIRMAN. Would there be any difference if it were as thick? Mr. SUTERMEISTER. There would be, yes, sir. There is a great difference in the shrinkage, too. That sheet was made on the same hand mold as the sheets of cornstalk. That is not a full sheet of that cornstalk that you have there.

The CHAIRMAN. The cornstalk is thicker.

Mr. SUTERMEISTER. Yes, it is thicker, but the difference may be due to shrinkage. They are made with the same hand mold and have the same superficial area when they are made, and if the cornstalk shrinks inwardly from the edges, if you have the same superficial area and you push it up into half that area, you have got to have it thicker.

Mr. Sims. He means it may shrink this way, as well as that way

[indicating].

The CHAIRMAN. But about the thickness of it. That depends on the thickness of it when it runs over the machine? You can make it

twice as thick as that if you want to?

Mr. SUTERMEISTER. Yes, but if you make a sheet 12 inches wide and shrink it down to 6 inches wide, in all probability you will have it about twice as thick when you get through. When it is wet it is about the consistency of cream of wheat. You can imagine trying to make a sheet of paper out of cream of wheat.

The CHAIRMAN. Of course, on a wet machine, they do not use anything as thick as that. You have no way of doing it so that you keep

winding it over?

Mr. SUTERMEISTER. No, sir. Here is some of the long fiber from

The CHAIRMAN. Rice straw ought to make a very fine paper;

Mr. SUTERMEISTER. I think it would; yes, sir. We have made no paper down there, and we can not tell absolutely, but there is no reason why we can not make a good grade of rice paper.

The Chairman. Is paper on the market known as "rice paper" made out of rice?

Mr. Sutermeister. I have seen some rice paper that was made out of rags entirely, and I have also seen some that was made out of

ground wood. You never can tell from the name what the paper has in it.

Mr. Sims. Is this prospectus which you have handed to me a propo-

sition to sell stock in something?

Mr. SUTERMEISTER. Yes, sir; but there are some samples of paper in there that are claimed to be made from cotton stalks.

Mr. Sims. Yes; I see.

Mr. SUTERMEISTER. Whether they are or not I could not tell. I have not examined them. It is fairly short fiber, but it is fiber that will make a very good grade of paper. The length of fiber is not so important as the ratio between the length and width. If you have a short fiber which is very narrow, it will make a better sheet than a long fiber which is very broad.

The CHAIRMAN. Of course you do not want a fiber that is too long, that is true, but this seems to be a very short fiber; that is, that is the way it seems to me, looking at it now. It looks more like ground

wood.

Mr. SUTERMEISTER. It has not the length of spruce fiber. The CHAIRMAN. What other experiments have you made?

Mr. Sutermeister. These are all that we have. We have worked on these things down there in connection with the Bureau of Plant Industry.

The Chairman. Have you experimented at any time with any

other articles in the way of materials for pulp making?

Mr. Sutermeister. You mean either here or in my own private work with private concerns?

The CHAIRMAN. Either one.

Mr. Sutermeister. Yes; I have.

The CHAIRMAN. How long have you been working with the Bureau

Mr. Sutermeister. A little over a year. A year ago last September I entered the service.

The CHAIRMAN. What were you engaged in before?

Mr. Sutermeister. I was a paper-mill chemist at the Cumberland

The CHAIRMAN. At the Cumberland mills?

Mr. Sutermeister. Yes, sir; we were experimenting there continually on various things.

The CHAIRMAN. Mostly woods?

Mr. Sutermeister. Not entirely, no. They are trying cornstalks there to quite an extent, in an experimental way. They have tried esparto.

Mr. Sims. What is that?

Mr. Sutermeister. It is a grass.

The CHAIRMAN. It is not used in this country to any great extent, because it is not profitable to get it here. It makes fine paper?

Mr. SUTERMEISTER. Most excellent paper, but the fiber in corn-

stalks is just as good as that in esparto.

The CHAIRMAN. You will not get as much fiber per ton out of cornstalks as you will out of esparto.

Mr. SUTERMEISTER. No. sir.

The CHAIRMAN. And the reason esparto is not used in this country to any extent is because of the cost of the raw material laid down here, is it not?

Mr. Sutermeister. In good part. It is partly because it requires special machinery. The apparatus which is used for wood pulp could not be used for esparto.

The CHAIRMAN. No.

Mr. Sutermeister. All of the mills that have been put up in this country have been put up primarily for wood, and in changing to utilize esparto it would require giving up present machinery and putting in new.

The CHAIRMAN. It is only the production of the pulp that requires different machinery. But esparto does not pay here when we have

wood so cheap, as I understand it.

Mr. Sutermeister. No.

Mr. Sims. Where does esparto grass come from? The Chairman. It comes from Spain, does it not? Mr. Sutermeister. From Spain and northern Africa.

Mr. Sms. It is an imported material?

Mr. Sutermeister. Yes.

The CHAIRMAN. There is more or less of it imported into England? Mr. SUTERMEISTER. They use a great deal of it in England. It makes a very soft and bulky paper. We can get almost the same bulk by using soda poplar fiber.

The CHAIRMAN. You have tried only the soda process?

Mr. SUTERMEISTER. Yes, sir; on these materials.

The CHAIRMAN. Can you make the fiber with the sulphur process

out of these materials?

Mr. Sutermeister. I would not like to say either way at present. I have tried a few very small experiments and have not got a very good product.

The Chairman. It would be less expensive under the sulphur

process, would it not?

Mr. Sutermeister. Probably, very slightly less expensive.

The CHAIRMAN. They have stated that the sulphur process is cheaper than the soda process, unless you are where you get very cheap fuel to recover the soda with.

Mr. Sims. As compared with ground wood pulp, what is the value

of soda pulp?

Mr. SUTERMEISTER. You mean the actual market price?

Mr. Sims. Yes.

The CHAIRMAN. Ground wood pulp is worth about \$20 a ton, a little less than \$20 a ton on the average. It is a little higher than that now.

Mr. SUTERMEISTER. Yes. I think the price for soda-pulp fiber is about \$45.

Mr. Sims. Anyway, it is worth two for one.

The CHAIRMAN. Of course the two are entirely disassociated in this respect, that ground wood is made purely with water power which is absolutely of no value so far as the soda process is concerned, or very little value. The Cumberland mills do not sell their soda fiber?

Mr. Sutermeister. Not from the Cumberland mills. There is

some fiber sold from their Yarmouthville mills.

The Chairman. Have you experimented with any other woods for

making fiber than those ordinarily used?

Mr. Sutermeister. We have tried the soda process on spruce, hemlock, and beech, and I think they have tried some maple there. This is at the Cumberland mills that I am referring to.

The CHAIRMAN. What do they use mainly for their soda fibers?

Mr. Sutermeister. Poplar. The Chairman. Is that aspen?

Mr. Sutermeister. Aspen.

The CHAIRMAN. Where do they get that from?

Mr. Sutermeister. The local supply all through Maine, and some down through New Brunswick.

The CHAIRMAN. Is it large or small stuff?

Mr. SUTERMEISTER. It varies very greatly. I have seen it down as small as 3 or 4 inches, and from that all the way up to 20 or 24 inches.

(At 4.15 o'clock p. m. the committee adjourned until to-morrow, Wednesday, December 23, 1908, at 10.30 o'clock a. m.)

SELECT COMMITTEE ON PAPER AND PULP INVESTIGATION, Wednesday, December 23, 1908.

The committee this day met, Hon. James R. Mann in the chair.

# STATEMENT OF MR. CHARLES P. NEILL, COMMISSIONER OF LABOR, ACCOMPANIED BY MR. NEWTON ADAMS.

The CHAIRMAN. You may proceed, Mr. Neill.

Mr. Neill. In 1907 there were 96 mills in the United States that made news-print paper. Out of that number there were 39 that made news-print paper only. To make the comparisons you asked we had to eliminate 17 of those because they had not been in operation long enough to cover the whole period. We found 20 mills which had been in existence since 1897 and we covered 18 of those. One mill in Oregon was not visited and one eastern mill was not considered, because it did not go from the two to the three tour system, and that would have thrown out the calculation. We have 18 mills, which represent almost exactly 50 per cent of the output of the mills, that make news print only, and we thought those figures would be almost identical as if we had taken the entire number.

The CHAIRMAN. Are those mills which went to the three-tour sys-

tem all eastern mills?

Mr. Neill. Fifteen eastern and three western mills.

Mr. Adams. We have separated the eastern and western mills. The three western mills are all on the two-tour system.

Mr. Neill. The fifteen eastern mills are on the three-tour, and three western mills are still on the two-tour system.

The CHAIRMAN. Are the western mills in Wisconsin?

Mr. Adams. Yes, sir.

The CHAIRMAN. All three of them of

Mr. Adams. Yes, sir.

Mr. NEILL. There are only three mills which make news-print paper exclusively.

The CHAIRMAN. There are more than three western mills that have

made news-print paper for ten years, but not exclusively?

Mr. NEILL. Yes, sir; that is what I said.
The CHAIRMAN. You think this would give a fair statement?

Mr. NEILL. I think if the entire mills were taken there would be a very slight difference, if any, in the figures, when you get as high as 50 per cent.

The CHAIRMAN. Have you included the International Paper Com-

pany?

Mr. Nenll. Yes, sir.

The CHAIRMAN. If you get the 50 per cent in that way, it would only represent about 15 per cent or less over and above the International Paper Company's mills?

Mr. Adams. You mean of the 50 per cent?

The CHAIRMAN. They make at least one-third of the paper.

Mr. Adams. Yes, sir.

The CHAIRMAN. Do you include all their mills?

Mr. Adams. All those making news print only. We thought that the moment we used mills making other kinds of paper that would vitiate our report. It was news print that you asked us to get.

Mr. NEILL. You have no idea what it means to get anything out of their figures. We simply had to take their total pay roll and total product, and if they make two kinds of paper you can not get anything at all. Some of these mills themselves, until we got through with them, did not seem to have any idea of the cost of the different elements of their output.

The Chairman. I do not recollect that my request was confined to

news-print paper?

Mr. Nelll. Yes, sir; it stated news-print paper.

You will notice in 1897 we could only find 4 mills, going back that far, that were in operation whose records were available, and we found that taking those returns in 1897 and 1900 there was practically no difference in the total wage cost. In 1897 the total wage cost per ton of news-print paper was \$10.74 and in 1900 it was \$10.60. Then we began in 1900 with the mills and we could follow the same 18 mills right through to 1907. You see in the last column in 1900 4 mills were still in operation and the difference between the cost in 1897 and 1900 was very slight. Then, in 1900 you will find that we were able to get 18 mills that we were able to trace right through from 1900 to 1907.

The CHAIRMAN. In that year the labor cost per ton was \$10.53?

Mr. NEILL. Yes. sir.

The CHAIRMAN. In the eastern mills \$10.59 and the western mills \$103

Mr. NEILL. Yes, sir. Of course that average is based upon all of the 18 mills. You will notice there, Mr. Chairman, in 1900 the eastern mills compared with 1897—

The CHAIRMAN. Were a trifle less.

Mr. Neill. Yes, sir. Mr. Adams. The four mills were comparatively small mills; that accounts for that.

The CHAIRMAN. That may account for it, but this is probably something you would not take into consideration. We have learned that they have reduced somewhat the cost of manufacture through

processes.

Mr. Neill. We studied that very carefully in order to find why it was that with a considerable increase in wage cost, in actual wage rates, there had been so slight an increase in the total wages per ton. We have figures on the increased speed of machinery and all that showing how the large increase in wages to the workers was offset by the larger output and the more rapid work of the machine. The method we used to get at that was this: Take, for example, the total production in tons. We had to get that and divide that into the total pay roll. Then, we afterwards subdivided the work, as you will find in the second column, the wages in the forest operation, that means the actual wages paid for cutting the wood and delivering it to the river and, in connection with rafts the cost at the mill, the wages paid for the amount of wood used by each mill to make enough ground wood for a ton of news print, and then, the amount of wood that was used in sulphite to make a ton of news-print paper.

The Chairman. Is that based upon 80 per cent of ground wood

and 20 per cent of sulphite?

Mr. Neill. No; the actual amount which each particular mill used. It varied a little.

The CHAIRMAN. I know that it varies, but I wanted to know how

you arrived at this.

Mr. Neill. In each mill we found the amount that that particular mill used of the total elements, and then we figured the cost for that mill.

Mr. Adams. We had to make an average amount for each year, which they gave us from their records; we could get the actual amount in all cases.

Mr. Neill. This is based on the actual amount used in the 18

mills and not on an average.

The CHAIRMAN. This sheet would show that from 1897 to 1907, the average amount paid for wages in the forest for timber needed to make ground wood enough for 1 ton of paper increased from \$1.84 in the eastern mills to \$3.55 in the eastern mills?

Mr. Neill. Yes, sir.

The CHAIRMAN. And from \$2.25 in 1900 in the western mills to \$2.47 in 1907?

Mr. Neill. Yes, sir.

The CHAIRMAN. That the average wages paid in the forest for enough wood to make sulphite enough for a ton of paper increased in the eastern mills from 77 cents in 1897 to \$1.88 in 1907?

Mr. NEILL. Yes, sir.

The CHAIRMAN. That the wages paid in preparing and grinding wood sufficient to go into a ton of paper increased from \$2.16 in 1897 to \$2.50 in 1907, and that the same for sulphite increased from \$1.25 in 1897 to \$1.48 in 1907. That the wages paid in the paper mills proper per ton of paper decreased from \$4.72 in 1897 to \$4.54 in 1907.

Mr. Neill. That is only based on the 4 mills. I think if you would take in 1900 for 18 mills it would be better. The addition

of those 14 mills gives an entirely different basis. I think the better figures all the way through are to take the 1900 figures and compare those with 1907. When you add 14 new mills you get a new basis of comparison.

The CHAIRMAN. You think the figures as to 1897 may be mis-

leading?

Mr. Neill. They are true as to those four mills. The CHAIRMAN. I mean misleading as to the result.

Mr. Neill. You get a larger situation. The representation is too Those are four small mills.

Mr. Adams. Yes, sir. The Chairman. What mills were they?

Mr. Adams. The Cliff mill, the Pettibone, the Riverside mill, and the Lisbon Falls Fiber Company. You will notice that the tonnage is given in the left-hand corner of the sheet.

Mr. Neill. The figures from 1900 to 1907 are thoroughly repre-

sentative and can be relied upon.

The CHAIRMAN. It would appear that these four eastern mills in 1897 were paying a very high rate for wages in the paper mills per ton. You think, probably, higher than would be paid on the average?

Mr. Neill. It need not necessarily be high wages. When we check these up at every point we get the wage cost by the month, and the difference between one month and another in the same year is simply astounding. I do not know of any other industry where there are such great changes in wages.

Mr. Adams. There is difference as high as \$3 a ton.

Mr. NEILL. For instance, one month they might have a number of breakdowns and the wages go on the same, but the output is

seriously interfered with.

The CHAIRMAN. We have had a great number of figures showing some considerable difference in cost. Of course, when a ground mill is running twenty-four hours a day it is running on a very different basis from one that may be able to run only a few hours a day owing

to a shortage in water.

Mr. NEILL. We found that too. The wage cost per month in every individual mill varies up and down in a most remarkable way. When they are running at a rapid speed they have to stop for an hour or two on account of a jam or some trouble with the machinery that is turning out the paper. One mill had to shut down for nineteen days in one month for some very extensive repairs.

Mr. Sims. And the wage rate was going right on?

Mr. NEILL. Yes, sir.

The CHAIRMAN. I think not.

Mr. NEILL. Yes, sir; they were using those men, as a matter of fact, and they went along in the work and finally had to put everything in shape. We eliminated in the cost all that might be in the way of actual reconstruction and only allowed in the cost such things as repairs which were actually made by the crew during the stoppage for a short time. That brought about a most startling difference. If one single mill of those four mills having a high cost in the year stopped, it would have changed the average of the three very much. In the 18 mills it would not have made very much difference. That is the difficulty in using such a small representation, although taking in 1897 these four mills were higher in wages than in 1900, and the 18 mills are lower than the four. So probably there was a wage reduction between 1897 and 1900.

The CHAIRMAN. I think, as a matter of fact, there was no wage

reduction.

Mr. Neill. I mean a wage-cost reduction. There was probably about that time improvement in their methods that brought about a reduced wage cost. Their production increased from 23,000 to 30,000 tons.

The CHAIRMAN. Do you think from your investigation that the increase of wages in the paper mills per ton from \$3.83 in 1900 to \$4.55

in 1907 represents an actual increase in wages to the men?

Mr. NEILL. It represents more than that, I think, Mr. Chairman. What happened between that period was this: There were very large increases to some of the operatives, probably as high as 60 or 70 per cent in the hourly wages. For example, nearly all of the eastern mills went from the two-tour to the three-tour system, which increased the hourly rate of pay 50 per cent, and in addition to that they had an actual increase after 1900 once or twice. That would represent itself in an increased cost to the mill more than is represented here, but at the same time to offset that they increased the speed of the machinery so that the same number of men turned out larger number of tons in They ran a crew working eight hours at the same rate as getting an hourly pay of 50 per cent more than to begin with, and the wage cost of the firm as far as these particular men were concerned increased 50 per cent, but those same men with the machines speeding much more rapidly turned out a great many more feet than formerly, so that the actual wage cost of the paper was increased by the speeding.

The CHAIRMAN. There has been no increased speeding of the machines, except that the new machines as a rule are much wider and

faster?

Mr. Neill. As a matter of fact, some of the machines were reconstructed. Of course, they could not speed them without lengthening them—they had to lengthen them in order to speed. In some cases

they could increase the speed without any change at all.

Mr. Adams. I found a great many cases where they had strengthened their machines in order to stand the increase of speed. Some of the old machines they went over carefully and strengthened the parts so that they could run faster, perhaps 50 or 75 feet faster. The mills have those records of speed.

The CHAIRMAN. We have great numbers in our record and we have

had a whole lot of those people testify before us.

Mr. Adams. They did not give us the information until we asked

what the speed was in 1897 and 1907.

The Chairman. We have asked a great many of them as to the speed of the machine. I do not doubt the statement at all, you understand.

Mr. NEILL. We give the actual rate.

Mr. Adams. It is not exact; it could not be exact.

The CHAIRMAN. Of course, the average rate of speed has very much increased in the last two years, largely because of putting in a lot of new machines that have a very rapid rate. A machine which runs 500 feet or more a minute is going pretty rapidly.

Mr. Adams. Yes, sir.

The CHAIRMAN. No one thought of doing that a few years ago.

Mr. Sims. Did you make an investigation of any mills that have been built since 1900, to ascertain whether or not the wage cost in the new mill is lower or higher than the average cost in the mills in operation in 1900?

Mr. Neill. No, sir. We were trying to get the comparative figures. We asked the mills, but found that their figures did not run healt for enough

back far enough.

Mr. Sims. I see. So you can not say whether in the most recently constructed mills, with the best machinery, the wage cost is lower than the cost in 1900?

Mr. Adams. I should say yes. I remember Mr. Gould gave testi-

mony to the contrary.

The CHAIRMAN. Let us look at these figures a little bit. From 1900 your forest wages for ground wood per ton of paper increased from \$2.12 to \$3.55?

Mr. Neill. In the eastern mills.

The CHAIRMAN. Yes, in the eastern mills; and from \$2.25 to \$2.47 in the western mills. That is incorrect, I am inclined to think, and I am inclined to think it is incorrect because it looks incorrect on its face; and, as a matter of fact, the western mills keep no data in reference to their forest expenses, because they do not gather their own pulp wood.

Mr. Neill. These figures are taken from the forest itself. We sent out to the contractors to ascertain what they themselves were paying to get this wood out. This does not represent, as I understand it, what the mill paid for wood; it simply represents the actual cost of

producing the wood.

Mr. Adams. We have no wood figures obtained from the mills them-

selves. We got them from the jobbers and contractors.

The CHAIRMAN. You will have to prove to me why the cost of getting out a cord, more or less, of wood in the West in 1900 was higher than it was in the East and \$1 lower in 1907 than it was in the East, when, as far as the information before the committee goes, the relative wages paid to the men in the forest, lumbering, were about the same in both parts of the country.

Mr. Adams. In the West you understand that the greater part of the wood is cut on the piece price. A man contracts for so many cords of wood at so much per cord, while in the East the jobber goes into the

woods and cuts out his wood with his own men.

The CHAIRMAN. I think you are mistaken as to the methods adopted in the West as to the major part of the wood. In both parts of the country now a considerable quantity of the wood is purchased from farmers who cut their own wood or cut somebody else's wood upon some basis, but the bulk of the wood in both places is secured from lumber men.

Mr. Adams. Yes, sir.

The CHAIRMAN. And in the West—I have been through it recently—they have contractors who go out, take their lumber crews and cut the wood, and they are apt to cut it clean, using the small spruce for pulp wood, the tamarack for railroad ties, and the white cedar for poles, but it is not cut by the piece.

Mr. NEILL. What Mr. Adams means is that the man goes and takes in a crew of 50 or 60 men, and instead of paying them so much a

day they are paid so much per piece for their work. It is simply the

difference between piecework and the rate per day.

The Chairman. But our information was that they are not paid by the piece. We have the wages that have been paid in the lumber camps. The Weyerhaeusers get out some quantity for their own mills and sell to some mills. The Wisconsin mills have two pulpwood companies that buy their wood, and they have had for a number of years. In 1907 there was very little wood cut, I will not say very little, but not nearly as much as usual. They could not get the wood in 1907. They went down to Quebec and bought 50,000 cords of wood. That is what produced this panic. We were up where they cut the wood. I have been through the lumber camps and seen the wood piled up alongside the railroad track, have seen great quantities brought in both ways, and there is certainly as much difference in the wages paid in the West as in the East.

Mr. Adams. Very nearly.

Mr. NEILL. The increase in the pay?

The CHAIRMAN. Yes, sir.

Mr. Adams. The wages we have in the West for cutting, hauling, and driving the load, including board, are \$2.30 in 1900 and \$2.60 in 1907. That is only 30 cents. In the East they are \$2.13 and \$3.74.

The CHAIRMAN. Those are your figures?

Mr. Adams. Yes, sir.

The Chairman. I am satisfied that your figures are not correct.

Mr. Neill. I will have them looked into very carefully. The western figures are based on how many contractors?

Mr. Adams. I do not remember.

The CHAIRMAN. I do not doubt that the figures that the gentleman got may work out this way. The lumber wages in the West were high then and they are high now, notwithstanding the reduction. We saw in Duluth a great number of advertisements for men to go into the forests at from \$30 to \$45 a month, board paid. That is as high as they have been in the East.

Mr. Adams. I think we found \$45 in some camps.

The CHAIRMAN. Yes; that is what I say. The wages in both places in 1907 ran from \$35 to \$40 and occasionally \$45 a month, with board and everything included.

Mr. Adams. We found \$45 and board.

The CHAIRMAN. I say, with everything included. You make a difference here of \$1.43 increase in getting out the wood in the East and only 22 cents in the West?

Mr. Adams. Yes, sir.

The CHAIRMAN. That seems unreasonable, and I am sure it is not correct.

Mr. Nell. I will have those figures carefully looked into and see what the explanation of those rates is. I remember looking over the eastern figures when obtained and noticed that there were some very

large increases in wages.

The CHAIRMAN. The wages in the forest from 1900 to 1907 were almost startling, but it is true both in the East and the West. We have a lot of testimony here, sworn to, more or less of it, as to the wages—I think more in the East than in the West. Our difficulty about getting the wages in the West has been that the mills themselves know nothing about it. Most of the mills do not know where

the pulp wood comes from, except they know what State it comes from, but they do not know how they get it. We talked with Weyer-haeusers, the largest lumber operators out there, and with a lot of other people who are operating in lumber, and their wages are just about the same in the West and the Friday Residue.

about the same in the West as they are in the East.

You show in the eastern ground-wood mills an increase in wages from \$2.02 per ton of paper to \$2.50, and in the western mills a decrease from \$2.19 per ton of paper to \$2.18, while you show an increase of wages in the sulphite mill per ton of paper from \$1.28 to \$1.48 in the eastern mills, and in the western mills from \$1.29 per ton of paper to \$1.66. That would seem to indicate a startling difference of wages in the ground-wood mills and the sulphite mills?

Mr. Neill. There might have been no change in the method of producing sulphite, and by putting in slightly larger machinery in the ground-wood mills would make that difference. You understand that this is not a wage rate, this is wage cost, and if they put in a machine which the same man operates and it turns out a larger amount of wood pulp it reduces the cost. There may be no change in the method of producing sulphite and there may have been an actual increase in the wage rates and yet a diminution of the wage cost.

The CHAIRMAN. As a matter of fact, there has been practically no change either in the sulphite process and machinery or the ground-wood process and machinery. Of coures, wages in the ground-wood mill are affected more or less by the shut downs or the scarcity of water, but there has been no such change in process in the ground-wood mill and the sulphite mill as there has been in reference to the manufacture of paper by increased efficiency.

Mr. NEILL. The shutting down of the water supply would not

affect the sulphite as it would the ground wood.

The CHAIRMAN. You show quite an increase in the ground-wood mill wages in the eastern mills?

Mr. Neill. Yes, sir.

The CHAIRMAN. Not so much of an increase in the sulphite mills in the East; scarcely any increase in the West in the ground-wood mills, and a startling increase in the sulphite mills. The sulphite mills do not run on the three-tour system?

Mr. NEILL. The ground-wood mills do.

The CHAIRMAN. The ground-wood mills operate twenty-four hours

a day.

Mr. Neill. The one-third when they went from the two to the three tour system would make quite a difference in the cost. The wages in the ground-wood mill would increase because the difference came from the two to the three tour system. There would not be a corresponding increase in the sulphite mill necessarily.

The CHAIRMAN. Your figures show that in 1900, in the western sulphite mills, it cost 1 cent per ton of paper more than in the eastern mills, while in 1907 it cost 18 cents more, and just the reverse in the

ground-wood mills?

Mr. NEILL. In the western mills in 1897, in the sulphite mills, their product had increased from 3,300 tons to 4,300 tons.

The CHAIRMAN. Four thousand three hundred tons? Mr. Neill. Yes. There are some more detailed figures that Mr.

Adams presents.

Mr. Adams. Here [indicating on a table] we have the amount of sulphite used in the different mills. There you have the wage cost

per ton.

The CHAIRMAN. What I was trying to get at was why there should be no increase in the ground-wood mills in the West and such a considerable increase in the sulphite mills in the West, when there is no such corresponding change in the ground-wood mills in the West.

Mr. Adams. Mr. Chairman, you must consider the quantity of sulphite used varied in these mills. You have not the wage cost per ton

there on that paper.

The CHAIRMAN. I have the wage cost per ton of paper.

Mr. Adams. Yes, sir; but not of the sulphite.

The CHAIRMAN. I have the total production of print paper in these mills.

Mr. NEILL. What Mr. Adams means is this, Mr. Chairman: This does not give the wage cost of any given amount of sulphite in those two years. In each of those mills they have found out just how much sulphite was used in a ton of paper in each year, so that there would possibly be changes there. He found that the amount of sulphite used per ton of paper was variable.

Mr. Adams. It varied about 30 pounds per ton in some cases, and

in some cases 50 pounds per ton.

Mr. Nehl. Now at those western mills there that you speak of, Mr. Chairman, in their ground-wood mills, where they have not changed from their shifts or tours, their rates are the same in the two years. The production for 1905 is about the same in the sulphite, \$1.39, as There has been no change there. Do you know, Mr. against \$1.66. Adams, whether the amount of sulphite increased there?

Mr. Adams. Those figures are not comparable in the least. the western mills in 1900 they used 492 pounds. When you get up

to 1907 they used an average of 524 pounds.

The CHAIRMAN. Then this increase in the wages paid for sulphite per ton of paper in the western mills is due to the increase in the quantity of sulphite used in a ton of paper?
Mr. Adams. Yes, sir; very largely.

Mr. NEILL. You see, as I explained, Mr. Chairman, we did not take a given amount of sulphite and assumed that that was used in a ton of paper and figured on that, but in each case we took the actual amount of sulphite used at different times, and it is figured out so that the change in the amount of sulphite used in the different years will affect the wage cost in those years, even at the same rate of

wages.

The CHAIRMAN. I do not think it has been called to our attention that there has been an increase in the percentage of sulphite used, although that can be easily explained by the fact that they used Wisconsin local hemlock for the manufacture of sulphite and spruce imported from Minnesota for the manufacture of ground wood. Hemlock costs them \$6 or so a cord, and last year the spruce cost them \$11 a cord at the mill. There has been a rapid increase in the cost of spruce, and not so much of an increase in the cost of hemlock; and then it might be that they have increased slightly their proportion of sulphite for that reason.

Mr. NEILL. In some instances you will find a reduction. It varied very much. In some mills we have found they have increased the amount of sulphite, and in others we found they had reduced it by getting a better quality of sulphite. We find in some cases that they have been enabled to increase the speed and at the same time reduce

the amount of sulphite in their paper.

The Chairman. The Watab mill in Minnesota probably uses less sulphite than any other news mill in the United States, and makes the finest news-print paper that is made, but their cost of producing ground wood is much greater than the average cost, because they grind on a fine grindstone, which grinds much more slowly and takes more horse-power to make a ton of ground wood by their process than it does ordinarily, and, being ground more slowly on a finer machine, it has a longer fiber, and therefore does not call for so much sulphite.

Mr. Sims. Where they reduce the cost of sulphite they increase the

cost of ground wood, so that that evens it up.

The CHAIRMAN. That is not one of the mills that is taken into consideration in this basis.

Mr. Neill. No.

The CHAIRMAN. Are all of these Wisconsin mills tending to the use of more sulphite and less ground wood?

Mr. NEILL. That is the case of these four mills averaging together.

They go from 492 to 524.

The CHAIRMAN. The total cost, of course, would cover both. The total wages paid per ton of paper in the western mills is \$10 in 1900 and \$11.74 in 1907. In the eastern mills it is \$10.59 in 1900 and \$13.95 in 1907. That gives the western mills a benefit of \$1.08 less for the wages in the forest on the ground wood per ton?

Mr. Neill. Yes.

The CHAIRMAN. I wish you would have those figures gone over again as to the wages in the forest operations, because I am satisfied they are not correct.

Mr. Neill. I will have a number of other contractors out there

and will get their rates. I am not sure if they are correct.

The CHAIRMAN. They are if you get the correct statements from

the contractors.

Mr. Neill. We get these from the pay rolls. We get the actual figures. So far as I know, nobody's say-so was taken, unless they had no pay roll.

Mr. Adams. In the woods they have no pay rolls, but they keep

rough time. I have seen those myself.

Mr. NEILL. They are taken right from the records that the man

keeps, but I will have that looked into very carefully.

Mr. Adams. We have the same difficulty in the ground wood that we had in the sulphite that you mentioned a few moments ago. For instance, in the western mills we found in 1900 they used 1.11 and in 1907, 1.10. They did not use quite as much wood. It is a very small difference, but in the aggregate it amounts to something.

The CHAIRMAN. What are those figures there, again?

Mr. Adams. In the western mills in 1900 they averaged 1.11 cords of wood to a ton of ground wood. In 1907, 1.10. In the eastern mills they used 1.08 in 1900 and 1.11 in 1907.

Mr. Sims. They are not getting so good a quality of wood.

Mr. ADAMS. That is probably the case, although they say they are trying to improve the quality of their ground wood.

Mr. Sims. But what they are getting does not average so high?

Mr. Adams. All these figures are rough wood.

The CHAIRMAN. They figure about a ton of ground wood to the ton and half a ton of sulphite. Of course the cost of ground wood would be affected by the smaller amount of ground wood and the larger amount of sulphite per ton of paper in the western mills. That would make some difference.

Mr. Adams. Yes.

Mr. Neill. That is, it would be based upon a smaller quantity in the western mills and a larger quantity in the eastern mills for the same period.

The CHAIRMAN. What are your figures of percentages of ground

wood and sulphite in the western mills per ton of paper?

Mr. Adams. Four hundred and ninety-two pounds sulphite to a ton in 1900.

The CHAIRMAN. And how much ground wood? Of course I could figure it out. I did not know but what you had it there already.

Mr. Adams. We have the figures that they used.

The CHAIRMAN. That would be 1,508 pounds of ground wood? Mr. Adams. Approximately; about 1,600 pounds of ground wood.

I have the total for the eastern and western ground woods.

The CHAIRMAN. Now give us the comparative amount used in the eastern and western mills of ground wood and sulphite per ton of paper, if you have that.

Mr. Adams. I have the total for the East and West for the three

years. I have not the figures filled in here.

The CHAIRMAN. Where did you get the western?

Mr. Adams. For the sulphite I have that all filled in. You see this is filled in in pencil, just as we left the office. I have not had time to

get that verified.

The CHAIRMAN. According to your figures, in 1900 the western mills used an average of 492 pounds of sulphite per ton of paper, and the eastern mills 527 pounds per ton of paper. In 1905 the western mills had gone up to 551 pounds of sulphite per ton of paper, and the eastern mills had gone down to 474, and in 1907 the western mills had gone down to 524 pounds of sulphite per ton of paper and the eastern mills 473.

Mr. Adams. That is an increase for the western and a decrease for

the eastern.

The Chairman. A marked increase for the western and a decrease for the eastern from 1900 to 1905, but not so much difference from 1905 to 1907. I do not see where you get these totals here.

## This statement, furnished by Mr. Neill, can go into the record:

#### News print paper.

	Total production (tons).	Average amount of wages paid in producing 1 ton of news print paper (from first work in forest).							
		Wages in forest operation.		Wages in	Wagesin	Wages in	Total		
		For ground wood.	For sul- phite.	wood mill.	sulphite mill.	paper mill.	wages (per ton).		
1907:									
Eastern mills	390, 549	\$3. 55	\$1,88	\$2.50	\$1.48	\$4, 54	\$13.95		
Western mills	41,385	2. 47	1. 75	2. 18	1. 66	3. 68	11. 74		
Total (18 mills)	421,934	3. 44	1.86	2. 47	1. 50	4. 46	13. 73		
1905:									
Eastern mills	341, 138	3. 17	1.67	2.34	1.35	4, 21	12.74		
Western mills	39, 219	2.14	1. 42	2.09	1.41	3. 27	10.33		
Total (18 mills)	380, 357	3.07	1.64	2. 32	1.36	4.11	12. 50		
1900:									
Eastern mills	328, 121	2.12	1.34	2.02	1.28	3, 83	10, 59		
Western mills	35, 654	2. 25	1. 13	2. 19	1. 29	3.14	10.00		
m-4-1 (10 M-1									
Total (18 mills)	363,775	2. 13	1.32	2.04	1.28	3.76	10. 83		
1897, eastern (4 mills)	23, 817 30, 737	1.84 1.97	0. 77 1. 11	2. 16 2. 13	1. 25 1. 22	4.72 4.17	10. 7 <b>4</b> 10. 60		
APOU, COSTOLIA (A IIIIIIS)	30,137	1.9/	1.11	2.13	1. 22	2-1/	10.00		

The CHAIRMAN. If you have it in any different form we will put it in also.

Mr. Adams. We have the same thing for ground wood per ton of

sulphite, and the same thing for ground wood.

The CHAIRMAN. Yes; we want it all. Anything that you have we had better print. You always want the thing you do not put in, you know.

Now, you have a statement here showing the average amount paid in wages in producing 1 ton of ground-wood pulp from the first work in the forest, and the same as to sulphite pulp in eastern and western mills. Now, how many eastern mills and how many western mills? It says 20 mills in the total.

Mr. Adams. Three western mills in ground wood. We have only

7 sulphite mills.

Mr. Neill. In the ground-wood pulp mills how many eastern

mills have you there?

Mr. Adams. I think there should be 21 mills instead of 20, if my memory serves me right. We have 17 eastern ground-wood mills and 3 western. Yes; 20 is correct.

The CHAIRMAN. This would show in 1897, the average in 5 eastern mills of wages in the forest in producing wood enough for 1 ton of ground wood, \$1.90, and in 1907 in 17 eastern mills, \$4.17. It shows an increase from \$1.90 in 1897 to \$2.63 in 1900.

Mr. Neill. You notice there, Mr. Chairman, in those same 5 mills

in 1900 they have only gotten to \$2.19.

The CHAIRMAN. Yes. It shows forest wages in 1897 in 5 mills, eastern mills, \$1.90, and in the same 5 mills in 1900, \$2.19, and in 17 mills,

which I suppose include the 5, \$2.63; in 1905, \$3.72, and in 1907, \$4.17; while it shows that as to 3 western mills the forest wages per ton of ground wood in 1900 were \$2.55; in 1905, \$2.52, a reduction of 3 cents, and in 1907, \$2.87. That would show a difference in the forest cost per ton of ground wood in 1907 between \$2.87 for the western mills and \$4.17 for the eastern mills, or \$1.30 difference, which, as I remarked before, I think is incredible.

Mr. NEILL. You think that is too high, too great a difference?

The Chairman. Yes; I think it is a difference that is entirely un justified by natural conditions, unjustified by the relative wages paid. Now, whether they have more extravagant methods of lumbering in the East I do not know; I presume not. The difference might possibly be accounted for in this way: The amount of pulp wood per acre in the woods is not nearly so great in the East as a rule as it is in many places in the West. In Minnesota, where the western pulp wood comes from, in many places it is extremely thick, and a considerable quantity of pulp wood is cut there. They cut it where it runs from 25 to 40 cords per acre. But it is all small stuff. Much of the eastern pulp wood is large logs. It is also possible that it might be accounted for by the fact that in the East probably they save more tops for pulp than they do for those western mills.

Mr. NEILL. A man might get a larger amount for a certain amount

of cutting.

The CHAIRMAN. It certainly can not be accounted for by the schedule of wages per man, and I can not find what figures it is based

upon.

Mr. Adams. I think in the East men cutting pulp wood cut pulp wood alone, in the majority of cases, and in the West we found those big lumbering companies were going into the forests and cutting everything, and then separating the wood for pulp and wood for other purposes. They were not selecting the wood in the forests

as much as they do in the East.

The CHAIRMAN. I am not sure that you are correct about that, but you may be. In some of the western country they go through the forest and cut the large stuff out first for saw logs. They do not cut the pulp wood at all. Then the next year following, or as soon as they can, they send another gang through, that cuts everything clean for pulp wood. That is the policy pursued by the big Weyerhaeuser concern. In every case, however, where they cut pulp wood in large quantities, where they get a good saw log they use it for a saw log, whether it is in the East or West.

Mr. Neill. As to these figures concerning the millwork, I gave instructions that wherever there is any difference at all they should inquire into the cause of it. I do not know whether the men who

went into the woods did that or not.

Mr. Adams. I think that was done.

The Chairman. You will notice by the table that the wages in the forest for the ground wood per ton in the western wills were \$2.87 and in the eastern mills \$4.17, a difference of \$1.30, while the wages in the forest per ton of sulphite were \$6.09 in the western mills and \$7.10 in the eastern mills, a difference of only 99 cents.

Mr. Neill. That is due, undoubtedly, to the fact that they use a

larger amount of wood to make a ton of sulphite.

The CHAIRMAN. I apprehend the wages are very much the same for cutting hemlock or spruce, but of course the material for sulphite in

the western mills is cut in Wisconsin. It is hemlock.

Mr. NEILL. They use more wood, do they not, Mr. Adams, in the West to make a ton of sulphite than they do in the East? This is not the cost of producing a ton of wood, but the cost of producing enough to make a ton of sulphite, and they require more wood in the West than in the East.

The CHAIRMAN. What I was calling attention to was the fact that there was only 99 cents difference in the forest wages in getting out two cords of wood, and \$1.30 in getting out one cord of wood.

Mr. Adams. It is 2.19 in the West and 2.16 in the East. The east-

ern mills use more ground wood than the western mills, so there is a

partial accounting for that difference.

The CHAIRMAN. Let us see. What are those figures, then? What are your figures? It is 1.10 cords per ton for the ground wood in the western mills?

Mr. Adams. 1.10 for the ground wood in the western mills, and in

the eastern mills 1.11; a slight increase.

The CHAIRMAN. That is practically the same. That would not

explain the discrepancies in the forest wages.

Mr. Adams. No. I was trying to account for the fact that there was not as great a difference in the production of sulphite as there was in the production of ground wood.

The CHAIRMAN. What is the amount of wood used in the western

mills for a ton of sulphite?

Mr. Adams. 2.19.

The CHAIRMAN. And in the eastern mills?

Mr. Adams. 2.16.

The Chairman. There is not much difference. Three-hundredths. out of several hundred hundredths do not cut any figure.

Mr. Neill. Is the same wood used there?

Mr. Adams. No, sir.
The Chairman. In the eastern mills they use spruce for both, and in the western mills they use hemlock for sulphite, in the main. They do in these mills that you have taken, and spruce for ground wood; and hemlock is cut in Wisconsin and the spruce in Minnesota. But there is no great difference of cost, I take it, between Minnesota and Wisconsin.

Mr. Adams. In Wisconsin they could get at the hemlock more accessibly, so that their wage cost per cord was not so great as it was for the spruce in Minnesota.

The CHAIRMAN. In either place they have got to do it on a regular

lumbering scale.

Mr. NEILL. The cost of producing spruce in the West was \$2.60 as against \$2.85 for hemlock per cord; that is a difference of 25 cents. That was in the cutting. It was \$2.25 per cord for cutting and hauling spruce and \$2.50 for cutting and hauling hemlock. In two cords that would make a difference of 50 cents.

The CHAIRMAN. But the difference here is just the other way.

Mr. Neill. The western cost here is too high, is it not?

The CHAIRMAN. I do not undertake to say about that, but it would look at first glance as though there was too great a difference between the eastern and western mills as to the wage cost of spruce as com-

pared with sulphite.

Mr. Adams. That was one special mill that had hard luck in 1907. You will notice there was a far greater difference in 1905. I remember the incident very well, and that mill has assured me three times that their figures were absolutely correct, that their wage cost per ton was excessively high in that year, 1907. One mill makes that difference.

The CHAIRMAN. What mill was that?

Mr. Adams. The Combined Locks. Their sulphite cost in 1907 was excessive as compared with their cost for 1905 and 1900, and there was no corresponding increase in the rates of wages. It might be that they probably burned up a good deal of sulphite, or something like that.

Mr. Neill. There is more hemlock used in the West.

The CHAIRMAN. There is not so much hemlock used in the East

for making sulphite. In Wisconsin it is used extensively.

Mr. Adams. They say in the East they are beginning to use it now. The CHAIRMAN. Now, here is a statement showing the average amount of wages, including board, paid in producing 1 cord of rough pulp wood for news-print paper. I suppose that heading "for newsprint paper" ought to go out there.

Mr. Adams. That was put in because we took the figures from the

men who were supplying the mills for news-print paper.

The CHAIRMAN. I know; but they supply pulp wood at the same rate.

Mr. Neill. In following down the cost we went to particular men who furnished the particular wood. That could be stricken out.

The CHAIRMAN. This is the same number of mills?

Mr. Adams. Sometimes we have three or four contractors furnishing I do not know the number of contractors represented there.

The CHAIRMAN. It is from a certain number of mills?

Mr. Adams. Yes. Contractors furnishing wood to the mills we use. The Chairman. You show an increase for the western mills from \$1.95 per cord in 1900 to \$2.25 in 1907, and an increase in the eastern mills from \$1.76 in 1900 to \$3.32 in 1907.

Mr. Neill. The same difference runs all the way through.

Mr. Adams. In 1900 one of these contractors had a very big contract, and you see the number of cords cut out in 1900 was very much larger than in 1905. It was very accessible wood, and he reduced his cost very much per cord.

The Chairman. You have in the western mills total production of

cords 2,626. That would not be very much of a contract.

Mr. NEILL. No. He was speaking of the eastern mills. In 1900 there were 104,046 cords, while in 1907 only 52,706 were gotten out. The western figures there are estimated.

Mr. Adams. We could not get actual wage figures in some cases.

The contractors in some cases could give us figures only from memory.

The CHAIRMAN. I do not know, but I think I have seen piled up during the past summer in the West 300,000 cords of pulp wood. This would not go very far toward disposing of that.

Mr. Neill. The western figures all the way through, Mr. Chairman,

are too small to be representative here.

The CHAIRMAN. I fear they are erroneous.

Mr. Adams. I think they may give erroneous impressions. I think

they are exact from the ground we were able to cover.

The CHAIRMAN. It might be that they picked up some contractor who undertook to get a little wood where he was, at home, or something of that sort.

Mr. Adams. We went to those big Duluth cutting firms, and——The Chairman. None of those Duluth wood-cutting firms furnish

only 2,500 cords a year.

Mr. Adams. We do not know how much they cut. The wage cost per cord there is what these firms gave from their books without giving the number of cords cut. We simply estimated the number of cords used to make our average for the eastern and western. The cords for the western have no bearing whatever, except that we use the same proportion as we use for the eastern to make our total average.

Mr. Neill. The same firm would sometimes be paying two or three different prices for its wood, getting it in different sections. I imagine if you were to take the actual cost of producing wood—take the International, for example—you would find it varies in cost very

largely, I think.

Mr. Adams. I think we have seven or eight accounts from one man, and the variations were almost beyond belief until they were verified.

The CHAIRMAN. Wood pulp has about as stable a market, when

there is a demand for it, as potatoes or any other commodity?

Mr. Neill. The price might be stable, but the actual cost of cutting in the forest would vary. Of course, those who are cutting at a much lower cost are getting much larger profits on their sales.

The CHAIRMAN. This would show an increase from 1897 in the eastern mills from \$1.18 per cord for wages in the forest to \$3.32.

Mr. Adams. The same firms were used in 1905 and 1907, but in 1897 we chanced to get some old figures from firms now out of existence. The records were in extremely good shape.

The CHAIRMAN. That would show a remarkably great increase in

the wages from 1897 to 1907.

Mr. Adams. I think the wages show the same amount of increase.

The Chairman. I have no doubt there was a great increase.

Mr. Neill. These western figures on wood are so small that they are not representative.

The Chairman. He says those figures are arbitrary. He says

they were merely arbitrary figures.

Mr. Neill. Yes. They are an estimate, even if they are 100 per

cent out.

The Chairman. They are not an estimate, but he took arbitrary figures in order to compare the western with the eastern figures, so that the amount might, as a matter of fact, be much larger.

# You can insert this in the record:

### GROUND-WOOD PULP.

	Total production (tons).	Average amount of wages paid in producing 1 ton of ground-wood pulp (from first work in forest).				
		In forest operation.	In ground- wood mill.	Total (per ton).		
1907.						
Eastern mills	252, 098 32, 625	<b>\$4.</b> 17 2. 87	\$3. 05 2. 57	\$7.22 5.44		
Total (20 mills)	284, 723	4.018	2.996	7.014		
1905.						
Eastern mills	236, 580 33, 431	3. 72 2. 52	2.90 2.48	6. <b>62</b> 5. 00		
Total (20 mills)	270, 011	3. 57	2.85	6.42		
1900. Eastern mills	210, 419 23, 450	2. 63 2. 55	· 2.65 2.48	5. 28 5. 03		
Total (20 mills)	233, 869	2.62	2.63	5. 25		
1897. Eastern (5 mills)	35, 537	1.90	2.44	1.34		
1900. Eastern (5 mills)	43,765	2. 19	2. 52	471		

#### SULPHITE PULP.

	Total production (tons).	Average amount of wages paid in producing 1 ton of sulphite pulp (from first work in forest).				
			In sulphite mill.	Total (per ton).		
Eastern mills	146, 769 4, 370	\$7. 10 6. 09	\$6. 17 6. 55	\$13. 27 12. 64		
Total (7 mills)	151, 139	7. 071	6. 184	13. 255		
Eastern mills. Western mills. Total (7 mills).	135, 231 5, 533	6. 22 4. 17 6. 13	5. 35 4. 91	11. 57 9. 08		
Eastern mills. 1900. Western mills	<del> </del>	4. 57	4.83	9. 40 10. 23		
Total (7 mills)	132,962	4 57	4. 85	9. 42		
Eastern (3 mills)	41,868	3. 23	4. 85	8.08		
1900. Eastern (3 mills)	82,762	4. 24	4. 80	9.04		

#### PULP WOOD, SPRUCE.

		Total production (cords).	Average amount of wages (including board) paid in producing all cord of rough pulp wood.				
			For cut- ting and hauling.	For driv- ing or loading.	Total (per cord).		
Eastern	1907.	52,706 a 2,636	\$3. 32 2. 25	\$0. 42 . 35	\$3.74 2.60		
Total	•••••	55, 342	3. 26	. 42	3.68		
Eastern	1905.	44,755 a 3,829	3. 04° 1. 95		3. 45 2. 30		
Total		48, 584	2.96	. 40	3. 36		
Eastern	1900.	104, 046 6, 933	1. 76 1. 95	. 37 . 35	2. 13 2. 30		
Total	•••••	110, 979	1.77	. 37	2. 14		
Eastern	1897.	45, 232	1. 18	. 35	1. 53		
	PULP WOOD, E	EMLOCK.					
Western	1907.	a E 470	\$2,50	\$0, 35	\$2, 85		
W 0310111	1905.	a 5, 672	82.00	<b>\$</b> U, 35	<b>\$2.</b> 50		
Western	1905.	a 3, 829	2. 40	. 35	2.75		

a Estimated.

The CHAIRMAN. Have you some more tables there?

Mr. NEILL. No, sir; we are unable to get our wage tables completed. There are nearly 200 occupations, and to get a proper average

out of those is a very complicated and serious proposition.

The statement made by Mr. Lyman recently that the figures compiled by the Bureau of Labor indicated an increase of 94 per cent is perhaps misleading, inasmuch as the Bureau of Labor was in no way responsible whatever for the computations showing 94 per cent increase. We did take certain figures from Mr. Lyman's records and brought them all in one place, and gave him copies of them. methods were used for getting his results we know nothing whatever about, and are not in the slightest responsible for any figures produced.

The CHAIRMAN. Can you give us a copy of this statement that you have referred to—this statement of Mr. Lyman's? Did not Mr. Lyman publish that statement?

Mr. Neill. It appears in the hearings of the Ways and Means

Committee.

The CHAIRMAN. We will consider those hearings as a part of ours,

and they will probably be published in our hearings.

Mr. NEILL. It is going to be a very difficult thing to come to any kind of a satisfactory conclusion in showing the changes in rates of wages and the increases in the various occupations; and to get anything that would be an average of increase over a period of years is going to be extremely difficult, for the reason that the number of men employed varies from month to month, and to get figures that

would be absolutely accurate would take a great deal of time.

The CHAIRMAN. The fact is, it is not so important now, in that respect, as when we commenced this investigation, because then there had been a considerable increase in the price of news-print paper, and at that time the question had been raised as to whether the increase was due to natural or artificial causes. It has now been developed, I think, that the increase in the price of news-print paper has been coincident with the increase in cost of production. But now we want to get at the question as to the wage cost in this country and in other countries, especially as relating to the tariff question.

(Adjourned at 1 p. m.)

COMMITTEE ON PAPER AND PULP INVESTIGATION, Wednesday, December 30, 1908.

EXPERIMENTS WITH CORNSTALKS, ETC.—continued.

## STATEMENT OF MR. NATHAN A. COBB, IN CHARGE OF CROP TECHNOLOGY AND FIBER INVESTIGATIONS, DEPARTMENT OF AGRICULTURE.

The CHAIRMAN. Doctor, will you give the stenographer your full name?

Mr. Cobb. Nathan A. Cobb.

The CHAIRMAN. What is your position?

Mr. Cobb. Agricultural technologist in the Department of Agriculture at Washington.

The CHAIRMAN. Recently what work have you been specially en-

gaged upon?

Mr. COBB. I have only recently come to the Agricultural Department. This division has been organized since my arrival at the department for the purpose of taking up the problems that lie more particularly between the grower and the manufacturer.

The CHAIRMAN. Of what?

Mr. Cobb. Of any product—that is to say, it covers textiles, foods, beverages.

The CHAIRMAN. Where were you before you came here?

Mr. Cobb. I had a short contract with the sugar planters' association of Hawaii, and organized their division of pathology and physiology in their experiment station; but before that I was for five years in charge of the pathological work of the department of agriculture in Sydney, New South Wales, Australia. For three years previous I was commissioned by the Government of New South Wales to visit this country and Europe from that place to examine into agricultural industries. Previous to that I was seven years a pathologist in that same department, at Sydney.

The CHAIRMAN. You have been in charge of the pulp and paper

investigation in the Bureau of Plant Industry, have you?

Mr. Cobb. I have had general oversight of that investigation in connection with Doctor Galloway, the chief of the bureau.

The CHAIRMAN. Please give us such information as you can on

the subject.

Mr. COBB. I should like to say, first of all, that the information I can give you, of course, is of a certain class. I do not care to give information outside of my own experience—that is, not so much from reading, and so on. I should say any evidence I could give you that would be of any particular value would result from my rather intimate knowledge of the structure of the various crops that might be used other than wood. Of course, I am more or less familiar also with the structure of wood, but I have not given that the amount of attention that I have given other crops—that is, the annual or perennial That comes about from having spent a great many years in examining the tissues of these plants in connection with their diseases. And previous to that it so happens that while a professor of natural sciences in Williston, in East Hampton, Mass., I was in contact with the paper industry at Holyoke, which was at that time among the foremost paper-making towns in this country. So that from having been a trained chemist, and actually practiced it, I came to have relations with the paper industry in that town, making examinations of paper and the various chemicals that are used in making paper. At that time Holyoke was a town largely making paper from rags. Wood had not become so prominent at that time. That was about 1881 to 1887. Then I came in contact with the paper industry again in Sydney when I first went there, from the fact that Mr. H. S. Chipman, who was a prominent importer, secured for the first time the contracts with the Australian dailies for the use of American wood paper, and I was employed by him as an expert to examine the papers he imported—all papers were imported, none manufactured there-and I examined all papers on the market with reference to deciding what was their technical excellence.

The Chairman. Is there any paper manufactured in Australia now? Mr. Cobb. I believe now there are some small paper manufactories, but my knowledge is indefinite. But if paper is manufactured there it is only an insignificant amount. Practically all the paper is imported. In my time I don't think there was a single paper factory there.

You will see that that sort of contact with the paper industry, connected with my knowledge of the structure of most of our crops, this latter being obtained by examining their tissues in connection with their diseases, made a combination which I presume led Doctor Galloway to give me the general oversight of these investigations, so I came at it more from the point of view of the structure of the plant that may be used than the technological qualities of the paper after it is produced. I do not pretend to have an intimate knowledge of the manufacture of paper, or the mills, other than that which would come through frequent visiting and a natural bent for understanding machinery.

The thing that struck me most forcibly when I took this matter up was the fact that we are using paper for publication purposes that is not permanent. We are publishing the most valuable material on papers that can not last much more than half a century, and very much of it is such, owing to the demand for fine paper upon which to

put engravings, such as half tones, and the fact that the engraver can now-a-days make such fine engravings, that there is constant demand for a better surface upon which to display those engravings, and to meet that we are producing a surface and a paper that can not last, in the nature of things.

The CHAIRMAN. Do you refer to book papers !

Mr. Cobb. More particularly, of course, to book paper, but there is a constant demand on the part of newspapers to use half tones; they use more and more of them.

The Chairman. News print paper is usually composed largely of ground wood, but still has an acid in it, and it practically burns up when it comes in contact with the oxygen of the air for a long time.

Mr. Cobb. The filled papers oftentimes have a good fiber back of In casting about, of course, I had to take the information that was given me as to the situation here. I was not cognizant of it, having been out of the country for so many years. I understood that there was a demand for a cheaper paper of that class, and of course the fact was brought forcibly to my attention that the price of wood was increasing so rapidly that the price of paper made from it was also increasing; and it seemed to me that one of the best things to do would be to look carefully into the vegetable matter that we are producing as by-products of our biggest crops, and there came up in that connection flax, of which we burn, as straw, several million acres annually. Also of cornstalks, of which we have an immense quantity, and of rice straw, of which there is a considerable quantity, and cotton stalks. And incidentally I would class with the maize, broom corn and sorghum as possibilities perhaps, although I have not got around to take up the matter of broom corn; but I think there is good reason to believe that we have there a plant that contains valuable fiber. We have been selecting broom corn for generations for the production of a tough straw at the top for conversion into brooms, and naturally the result of that selection has been a tougher and tougher broom straw. A correlated toughness probably has arisen in the fiber cells that are in the tissues. I think, although the quantity of that plant is small at present in comparison with others we raise, that it is something which ought to be looked into. As I say, I have not yet gone beyond making inquiries as to whether it has been used, but I have evidence it has been used by Mr. Van Wyck in New York, whose address I can give you. He has written me that he has established a factory, and seems to feel confident that he will be successful in making a commercial article out of broom corn. have had no personal acquaintance with Mr. Van Wyck, whom I think is a retired business man, and therefore didn't continue this production for that reason. He has sent me some samples of his paper. His factory has been burned.

Mr. Sims. Made from broom corn?

Mr. Cobb. Yes. Mr. Sims. From the straw or body?

Mr. Cobb. I take it it is from the stalk. I suspect that the tops would naturally be used for brooms, but there can be little question that the tough quality of the top will extend to the stalk. of the stalk will be of toughness corresponding to that in the top.

Then, I think it wise to take into account also those wild plants which we have in considerable areas and which might possibly serve also as a source of paper. In that connection we took into account the so-called salt marsh grass, which is not a grass at all, but a "sedge," which grows along the coast, and another plant which is the main grass of the Everglades of Florida and the South Atlantic coast, in many regions; also the bamboo of the canebrakes, which exists in considerable quantities, and is made interesting because of experiments made in the last few years in India by competent technologists, so far as I am able to judge, men of widespread reputation, looking to the successful utilization of bamboo for papers of certain qualities. And this cane, although not bamboo, is a related genus, and from its structure and production, so far as we have ascertained, we would expect a similar result.

Mr. Sims. Did you investigate the scrub palm of the Florida

Peninsula ?

Mr. Cobb. We have not taken that into consideration.

Mr. Sims. I have been led to believe, by statements of certain persons, that the root has a great deal of fiber in it, and the root practically covers the entire surface.

Mr. Cobb. They use that for a sort of imitation horsehair, do they

not?

Mr. Sims. I understand it contains a large percentage of fiber, but

what grade of fiber I don't know, nor what value it may have.

Mr. Cobb. The only contact I have had with anything like that was when in Algeria I looked carefully, in connection with Professor Swingle, of our department, into the production of imitation horse-hair; and I understand this Florida palm has been successfully utilized in some such way. But I had not taken it into consideration in connection with paper production, because the quantity that would be required for any purpose in connection with the manufacture of paper would be so immense that it did not seem worth while to pay attention to the matter unless there was some particular point in connection with it.

The CHAIRMAN. We must have something that will reproduce very

rapidly.

Mr. Cobb. That is true. There is another point that I would bring up in connection with the matter, and that is this. In looking over the different qualities of paper that are made from different classes of fiber, it strikes one forcibly that wherever a good surface has been obtained for engravings, which means the finer sorts of printing surface, that the fibers are fine fibers. That, of course, is extremely reasonable, because if you attempt to weft a surface by means of fiber, the roughness of that surface will depend upon the diameter of the fiber, and in the finer finishing of the paper the more nearly you can get to a perfectly plane surface the better. That, of course, is what you would like to get on a good printing paper, and so I have thought it would be worth while to spend considerable money, perhaps not all at once, but systematically, employing some experts, of which we have a good number in the Department of Agriculture, in microscopically examining the tissues of plants in searching for fineness of tissue. It would not matter that the plant was not produced in enormous quantities, because the fine fiber could be used on the surface of a coarse fiber; that is to say, it could be veneered, so to speak a cheap fiber with an expensive fiber; so it would not be so necessary, perhaps, that this fine fiber, when it is found should be very cheap.

I am very confident it can be found, because the number of plants that have been exploited for paper purposes is insignificant in comparison with the total number of species.

The CHAIRMAN. As I understand it, there is quite a difference in

the character of fibers, some smooth and some very rough?

Mr. Cobb. That is true. It is not merely a matter of fineness, though that is an important element in getting a surface; but it must not be too smooth. It must have a certain amount of friction-producing quality to get strength in the paper. But I think that would be an eminently proper line to systematically spend a small sum of money upon investigations of this character. I believe it is a very promising line. We are printing most valuable publications now on

paper that does not last.

After looking over the field in that cursory way, we come down to the facts that we will have to deal with. The difference between all these plants and wood, of course, is that in wood there is no large fraction of cells that are of a "pithy" nature. Wood is largely made up of fibrous cells. There are a few cells that are not fibrous, but the proportion in weight is comparatively small. That is reversed when you come to all these other plants, in which the cells that are not fibrous exceed in volume the fibrous matter. All those—and this is a general statement that holds true throughout the whole vegetable world outside of the woods, that the pith cells, the parenchyma cells, being a little more exact term than pith cells—those cells are very largely of one quality; that is, their diameter is the same in every direction, and the walls are thin.

The CHAIRMAN. That is, the parenchyma cells?

Mr. Совв. Yes.

The Chairman. Tell us about the plant structure. The fiber con-

sists in the main of cellulose, does it not?

Mr. Cobb. Yes, sir; that is to say, where the fiber is dead, the water evaporated, and what little protoplasm was in the cells has dried up, the dry weight is mainly cellulose.

The CHAIRMAN. But what does the fiber consist of? Eliminate

the question of water and what else is there in it?

Mr. Cobb. You would have whatever salts were in solution in the sap; you would have protoplasmic matter.
The Chairman. What is the protoplasmic matter?

Mr. Cobb. That is the living matter in each cell. And you would have the products of that living matter; that is to say, this living matter is like all other living matter which excretes certain things that it can use no longer, such as salts in the form of crystals, like the oxylate and carbonate of lime. All that matter remains in the tissues.

The CHAIRMAN. Take the heart of a tree; what is there in the fiber

there? There is no protoplasm left there, is there?

Mr. Cobb. It either died or migrated. As the tree dies from the heart out, the protoplasm, which occupies the outer layers, is derived from that which occupied the inner layers. The inner layers may serve to transport water back and forth, but there is no living matter in the heart wood of a tree. It is on the outside.

The CHAIRMAN. The living matter, the protoplasm, is in the fiber

cellulose matter?

Mr. Cobb. It would be confined in a tree to the cellular matter next to the bark, a thin layer, a fraction of an inch in thickness only; all the rest of that tree would be composed of dead cells. In the eucalyptus tree, with a thick bark, rapid growing, and a considerable layer of sap wood, it might run perhaps toward an inch, but as a rule only a fraction of an inch is actually alive.

The CHAIRMAN. Is this protoplasmic matter in the cells in the fiber

and also in the interfiber matter?

Mr. Cobb. That would depend upon the age of the different tissues. All cells would have to be built up from protoplasm. Every fiber at some time contained protoplasm, but once the fiber is built the main portion of it that would be converted into paper would contain no protoplasm.

The CHAIRMAN. Is it this protoplasmic matter that forces the sap

from one cell to another?

Mr. Cobb. Undoubtedly there are physical forces other than the living forces that come into play, but they are not well understood, Mr. Mann. Even the most acute investigators and observers have not been able to explain all the forces that act in a plant; but this is undoubtedly true, as a general statement, that both factors enter into the matter, the living force of the protoplasm itself and the physical forces, like capillary attraction, and so on.

The Chairman. It is perfectly patent that in a tree which is dead the water will not rise as high nor as rapidly as the sap does in the

living tree?

Mr. Cobb. There is no doubt whatever that the protoplasm exercises considerable power in the transmission of the matter in the tissues, but I do not think anyone would deny that there are also physical powers that work there and partly account for what happens.

I was going to say, that general fact I mentioned with regard to structure is a very important one, when you come to the making of paper out of any other plants than wood. You have to deal with the fact, which is universal, that all these plants contain a much larger proportion of pith cells—of parenchyma—than wood does. For instance, take corn stalks. There are two parts, by weight, of pith cellulose to one part of fiber cellulose, and the proportion by volume is very much greater. I presume you know the structure of the corn stalk, and have seen the little fibers scattered through. The fibers are what give rise to the long fibrous cells that can be converted into good paper, and the rest is pith. But of course the volume is perhaps five-sixths or nine-tenths pith.

Mr. Sims. Can that portion of the stalk you refer to as pith be used

practically in the manufacture of paper?

Mr. Cobb. It occurs in all paper, but only in small quantities, and they would prefer to have it out, because it does not add anything to

the strength.

The CHAIRMAN. Let us see if we can understand that. You take common wood, spruce wood, that is used. When it is reduced to sulphite it produces about a thousand pounds to the cord of sulphite fiber. If it ground into ground wood it produces about 2,000 pounds. The cord in itself in the first place weighs something over 4,000 pounds, of which half of it is probably moisture—about that, maybe a little more than that. Computed on the basis of dry weight, the

thousand pounds of sulphite would be the fiber. Would the other thousand pounds in the ground wood consist of what you call pith matter?

Mr. Cobb. No, but some of it would be. The CHAIRMAN. What does it consist of?

Mr. Cobb. It would be resinous matter largely, and it would consist of protoplasmic residues left in every cell when the protoplasm migrates or dies, and whatever salts are contained in the wood. Those all enter into the thousand pounds. And then you would have to take into account this fact, that when you use your chemical for making the wood pulp, you dissolve the cells apart. Of course, it happens that the cells are cemented together by a natural cement, and the chemicals that act on that cement loosening the cell, will also act on the cell itself, so that the chemicals dissolve the cellular matter as well as the cement substance between.

The CHAIRMAN. Do you call the pith a "substance" or not? We

usually refer to it in our hearings as the intercellular substance.

Mr. COBB. That is right in a way. To a certain extent interfibrillar substance in wood is made up of these parenchyma cells, but they constitute only a small portion of it. That is the case with

Mr. Sims. The amount of pith that is in the stalk used for pulp making is an extraneous substance so far as paper is concerned, and it has to be gotten rid of rather than utilized?

Mr. Cobb. If you want to take paper in the ordinary sense of the word, yes. But that will make a substance that you might call paper. I have some samples here-

The CHAIRMAN. I think you had better go ahead with your state-

ment until we come to that later.

Mr. Cobb. It does produce a paper that resembles tissue paper, and which could be used for certain purposes, especially in case of certain plants.

Now, while the structure of those pith cells is essentially alike in different plants, still it is not the same in any two plants, and they are somewhat more transparent in some plants than in others, and they may be slightly thinner in the wall in some than others.

The CHAIRMAN. You are directing our attention to the general

scheme of cells?

Mr. Cobb. Yes. The CHAIRMAN. I want to go fully into this.

Mr. Cobb. You have there two groups of plants. It is not a natural grouping, but a practical grouping for our present purpose. You have trees and other plants. All these other plants are characterized by having a large quantity of pith cells, and in many cases the greater portion of the weight is made up of those. You can not use those for ordinary paper.

The CHAIRMAN. You are referring to herbaceous plants?

Mr. Cobb. Yes; plants that are not trees. That is wider still. The Chairman. That would include shrubs?

Mr. Cobb. I should put shrubs with the trees; but there are many plants that we do not even think of as a basis. We do not think of palms as a basis, yet they would come in that group of nontrees. That is the distinction I make. They are not trees, and they do contain a large amount of pithy matter. In some portions of the trunk, at the bottom, there is solid gummy matter, but the stalk and leaves contain a large amount of pithy matter. That, of course, means that you have a different sort of problem to make paper out of these plants. You have to get rid of that pithy matter.

Now, at this stage of the proceedings I will describe the process by which we got at the data. It became clear that we could never make paper from these other plants unless we had some process for the separation of the pith cells. At that time it came to my attention that this had been tried in England. I found that it had been done at Warren Brothers Mills at Cumberland, in conjunction with a man from Chicago by the name of Sherwood. I had the matter looked into and obtained samples of paper made from the pulp that had been separated by this process, and the results looked so good that I thought the best thing we could do would be to find out what Mr. Sherwood had actually done. We got him down here, had him bring his machinery. We came to the conclusion that the problem was a general one; that it did not matter so much what particular crop we took, so far as the separation was concerned. If we could do it with cornstalks, we could do it with rice straw, because the problem is essentially the same in all the plants. Then we took into consideration the fact that maize was a plant from which there was the biggest tonnage of stuff that was not utilized to advantage, not going to waste, still not utilized to advantage; and combining those two, we determined to try out this process of separation, which was claimed

to be successful, and to try it on corn first.

The CHAIRMAN. Do you know, Doctor, whether or not Mr. Sherwood is connected with the National Fibre and Cellulose Com-

pany, of Kankakee, Ill.?

Mr. Cobb. I do not know what the name of his company is, but it strikes me that that is the name of it, though I am not sure. should think that his company would be a Chicago company. that near Chicago?

The CHAIRMAN. Kankakee—yes.

Mr. Cobb. He lives at Lakeview or Lakeside, near Chicago. The Chairman. Kankakee is about 50 miles from Chicago.

Mr. Cobb. I can not tell you whether that is his company or not. I have seen samples of his product, and if you have some samples there [after examining samples]; yes, that is the man; those are his samples. Shall I give the results of that trial without going into particulars?

The CHAIRMAN. We would be glad to have you tell us about the

Mr. Cobb. I will not go over the ground that Mr. Sutermeister traversed, because it would be a repetition. The work has been carried out at the Forestry Service laboratory, and it will save a great deal of expense in the matter. If we had not had the laboratory we should have had to create something similar or employed private parties outside at considerable expense, and probably at much less advantage.

Now, there is no doubt that that screen effects the separation. have had a microscopic examination made of the pulp after the separation has taken place, and have had general oversight of the material and the order in which it has been tested, and have had sam-

ples of all the products.

The Chairman. As I understand it, in a general way, that separation is effected very much on the same principle in which they get the water out of the pulp when it is going over the machine, excepting that they keep stirring it up.

Mr. Cobb. That makes all the difference. It is very simple. I could not understand it from Sherwood's description; I could not get any idea how it could be done. Have you seen the machine?

The CHAIRMAN. No.

Mr. Cobb. Seeing the machine makes it very clear. I have the way in which it acts very clear in my mind now, although I found extreme difficulty in getting any sort of an idea of how it acted until I saw it in operation. Then I got such a clear idea that I think I can explain it to another man.

Of course, the pulp that comes from the digester is made up of two-thirds pith cells and one-third fiber—I am speaking of the corn. That turns out to be about the dry weight result, but in bulk the

proportion is even greater in favor of the pith.

The CHAIRMAN. Please describe that a little more fully so it will

be clear in the record.

Mr. Cobb. I will say that the cells that compose the fibrous matter from which good printing paper can be made are very long and flexible, whereas the pith cells have nearly the same diameter in every direction, although that diameter is considerably greater than the maximum diameter of any fibers. You can imagine what sort of a mixture that makes. These fibers are bent about these pith cells. machine consists of a helicoid screw used in grain machines, a spiral affair that much resembles the ordinary screw, only what constitutes the threads of an ordinary screw in this affair are thinner and deeper. As that winds in a trough, it would naturally screw the matter forward that lay in the semicylindrical trough, but the bottom of this trough is a fine sieve. All the ordinary processes that I know much about in connection with separations in paper mills use a great This differs from that class of separation in that it deal of water. uses very little water. This pulp is put in as dry as it will drainin an hour or something like that. It is as wet as it would be after draining.

The CHAIRMAN. But it is not floating?

Mr. Cobb. Nothing like it. You can pick it up in chunks. Now that is shoved along in this trough by the motion of that screw. The result is that the friction of the screw tumbles this matter about, and there is still sufficient water in it so that if you didn't look out, as you pick up a lot of it, it would fall off at the edges. That is the consistency in which it has to be. That is constantly breaking apart. While that is happening small streams of water are playing on it, and every time it breaks apart there is disclosed a surface on which the pith cells are not completely independent of the fibrous cells, but they wash loose and go down through the sieve; and that is all there is to it.

Mr. Sims. A process by which the pith is washed from the fibrous cells?

Mr. Cobb. That is it exactly.

The CHAIRMAN. Is this machine supposed to be of commercial size?

Mr. Cobb. This machine consists of two troughs about 5 feet long and 7 inches in diameter.

The CHAIRMAN. But is it of commercial size? Mr. COBB. It is not of commercial size; no.

The CHAIRMAN. What is the diameter of that screw?

Mr. Cobb. About 6 or 7 inches. I have seen these helicoids made considerably larger in grain machines, and I see no good reason why

they could not be made considerably larger.

Now, as to the result. It is a good separation. I have examined the pulp microscopically and it is perfectly easy to tell how well the separation has been accomplished, and there is no question whatever but that his machine accomplishes the operation. The corn we have tried, which is a Maryland-grown sample, is getting out a fiber that averages about 1.25 millimeters—a millimeter is about one twenty-fifth of an inch—in length, and it is a fairly fine fiber.

The CHAIRMAN. That would be what proportion of an inch?

Mr. Cobb. That would be about one-twentieth of an inch, approximately. That is a fair length of fibrous cell, as they occur in more woody plants. Esparto has a fiber which is largely used in Great Britain, and it is not far from that length, although it is somewhat finer than any we get from cornstalks.

The CHAIRMAN. Of course, that fiber is not so long as the ordi-

nary wood fiber?

Mr. Cobb. It is not so long, but very much finer.

The CHAIRMAN. You were telling about the Sherwood process in

describing what you propose to do.

Mr. Cobb. We look at this in the Bureau of Plant Industry not only from a technological point of view, but also from a strictly agricultural point of view. Naturally, as these are technological problems, we have got to have information on both sides of the question, the manufacturers' point of view as well as the growers'. Still, our face is toward the producer most of the time; that is what we are supposed to exist for; and while we want to understand these problems from the manufacturing point of view, it is particularly for the benefit of the grower.

Sherwood claims that in his processes—and there are other patentees also—that by preliminary digestion with water alone, not using any chemicals, he can get out an extract which has value as a

stock food.

The CHAIRMAN. But that has nothing to do with this process?

Mr. Cobb. Oh, it has a great deal to do with the success or non-success of the process.

Mr. Sims. It has nothing to do with the making of paper? Mr. Cobb. No; but whether that process can be used.

The Chairman. It has a great deal to do with the use of cornstalks by any process. That is what I wanted to know, whether he had any special process with reference to running water over cornstalks

that were cut up.

Mr. Cobb. Yes; he has a special patent granted him, and there are others who also have patents; I think perhaps five or six different parties, covering this field, even specifically applied to cornstalks, so that it is a widespread idea, and the question that arose with us was whether there was not a by-product of possible value that had an

important bearing on the use of cornstalks as a material for making papers. If cornstalks were poisonous, like cotton stalks, we would not expect to get anything of value, unless it was a drug. Of course, we knew the fodder value of cornstalks, and we also knew that one of the principal drawbacks to the use of cornstalks as fodder is that the animal has to manage such a bulk of nondigestible matter to get the nutriment that its value is much reduced; in fact, many farmers do not use it at all and allow it to rot in the fields. As the paper-mill processes permit the application of high temperature under great pressure, it was extremely reasonable to suppose that they might extract a maximum amount of this matter that could be used as stock food. We have also tried that out. We have not been able to obtain as high pressure with the apparatus we had as perhaps might be desirable, but still we have had fair conditions. As a result we have discovered several things. One is that we can not come up to the claims of the process. It was claimed that something like 300 pounds could be obtained, and that this would probably pay for the process up to that point. If that was so, it was important.

But I do not want to say anything more than this: My opinion is that that particular claim is in the balance. I do not know what the outcome is to be; I wouldn't like to say whether it is going to prove of sufficient value to offset the disadvantages, or not; but I do think this, that it looks promising enough at present to not only justify, but, in my opinion, demand further investigation.

The Chairman. What do you mean by "looks promising?" Are

you talking about the by-product now?

Mr. COBB. Our experiments are on such a scale that we are not able to give a sound judgment as to the commercial value. can not be done until the process is carried out on a larger scale. can get results that indicate, one way or the other, whether the thing ought to be carried further; but with a small outfit like this one at

the Forestry Service, we can not do more than that.

We get the same amount that the patentees claim—that is, about 300 pounds of extract—but this point has come out: We have the analyses that were made by competent chemists, and I am thoroughly confident that they are right. I have gained confidence in the whole thing as they have worked it out, although I think they claim at least all that can reasonably be claimed. Perhaps that statement is not quite strong enough. I think perhaps they claim a little too much. I have, however, gained confidence in the results they have obtained. I know something of the chemists who made the analyses, and I do not believe they could be induced to state anything that was incorrect.

The CHAIRMAN. I suppose that there is no difficulty in obtaining a chemical analysis to show what these by-products consist of, and how much may be extracted under certain conditions from

cornstalks?

Mr. Cobb. True; but you know too what a tremendous number of misstatements float around, and when one hears claims made for this, that, and the other, one is sometimes very skeptical.

The CHAIRMAN. We are not interested in what they claim, but

what you find.

Mr. Cobb. We had to determine the value of the claims that these people made. Naturally I went into that with a good deal of skepticism. 'I thought it looked reasonable, but that the figures were too high, and that perhaps the best thing to do was to try it. We got about the same amount of extract that they did. We experimented on Maryland-grown corn. By the Sherwood process they showed that this extract contained about 10 per cent—these figures are all rough—of nitrogenous matter; supposed to be thoroughly digestible nitrogenous matter, and of the highest food value.

The CHAIRMAN. Ten per cent of what?

Mr. Cobb. Proteids.

The CHAIRMAN. Ten per cent of what?

Mr. Cobb. Of dry weight.

The CHAIRMAN. Of cornstalks?

Mr. Cobb. No; of the extract. Ten per cent of the dry weight of the stock food.

The CHAIRMAN. Do you mean that if there are 300 pounds of

extract that about 10 per cent are proteids?

Mr. Cobb. Yes; and they got about 18 per cent of the saccharine matter. I take it that their results must have been obtained from fresh cornstalks. And I ought to say, too-what I have not said earlier—that we had to go at this thing under considerable disadvantage. The money voted by Congress was turned over to us in the early part of the fiscal year, when no fresh crop material was available. To have the best material we would have had to wait for the stuff to grow, so that we could not go at this with the speed that we otherwise would have done. We had to use cornstalks a That brought out this fact, that we were not able to obtain from such cornstalks anything like the saccharine matter that they obtained by the previous experiments. I presume that is explained by the fact that we had to use cornstalks a year old. Everyone knows that cornstalks, no matter how well they are kept. will become less valuable in a year, and that means at the expense of the saccharine matter. It is significant, however, from our results with the Maryland cornstalks, that the saccharine matter was only about 3 per cent. The saccharine matter from the stalks obtained by Sherwood's experiments was 18.4 per cent.

The CHAIRMAN. But we do not care what his experiments were; we want to know what your experiments were. We do not want

you to testify as to what Sherwood obtained.

Mr. Cobb. No; that is right. But I am pointing out that the results that we did obtain were very much lower as regards saccharine matter than the claims that were made for the process we set out to examine.

The CHAIRMAN. It is all right to say what was claimed.

Mr. Sims. That is all he did.

Mr. Cobb. I believe I can give the explanation of that, but of course it remains to be seen whether my explanation is correct. Simply that we used stalks a year old.

Mr. Sims. That is, the stalks you used were a year old and the

stalks he used were fresh?

Mr. COBB. Yes; I think that would just about account for that That throws a very different light on the value of that stock food as a by-product. Of nitrogenous matter, which is most important as a food material, we get about the same that they claim, but of the saccharine matter very much less, and that would considerably reduce the food value of that material.

The Chairman. You say you get 3 per cent. I understood Mr. Sutermeister to say the other day that about one-half of the 300 pounds was glucose, the other saccharine matter.

Mr. Cobb. I have the figures before me as furnished by the Bureau of Chemistry, and they would be the source of whatever information

he has also.

The CHAIRMAN. He must have been mistaken about that, then. Mr. Cobb. Of course I do not know what he said, but at any rate these are the facts. There is no question about the food value of this material.

The CHAIRMAN. What is the rest of it? You have 10 per cent and

3 per cent. Of what does the rest of it consist?

Mr. Cobb. That brings me back to the agricultural point of view. The rest of it, as returned in the analysis, is saline or mineral matter. From an agricultural point of view it is very undesirable to send off from a farm any matter that would be of manurial value, and it seems to us, looking at this process as carefully as we can, we come repeatedly to the conclusion, no matter from what point we begin to reason, that if a paper factory could be started in the corn belt at a center where plenty of maize was available, by a system of barter which would be a favorable sort of trade, under proper regulations, the farmer could get back from the paper mill this stock-food material to use; that would be valuable to him again as manure, after feeding to his stock, of course. That is, he is depriving his farm only of cellulose matter that does not cost him anything. He gets that from the air free of cost. He does not have to pay a cent for it. All of these mineral matters contained in this stock food, such as potash, and so forth, he has to pay for if they are not present on his farm. Supposing he gets that back from a paper mill and uses it, he does not lose it. From an agricultural point of view it is good practice.

The Chairman. It may be good practice from an agricultural

The CHAIRMAN. It may be good practice from an agricultural point of view, but what we want to find out now is what this by-product really consists of, and whether it will pay the farmer to sell

this manurial matter and buy it back.

Mr. COBB. There is what it contains; those are the two principal ingredients returned in the report.

The CHAIRMAN. What is the rest of it, Doctor?

Mr. Cobb. Well, the analysis figures give these. They are furnished by the Bureau of Chemistry, to whom we naturally turn for analyses of this kind. Doctor Wiley's figures are as follows:

## Analysis.

Miscellaneous Division No.	Moisture.	Ash.	Insoluble.	Protein.	Glucose.	Sucrose.	Non- sugars.
<b>-</b>						<del>-</del> -	
6243 a	3. 42 40. 05	Per cent. 22. 18 18. 02 29. 36	Per cent. 14.34 7.68 15.16	Per cent. 10.38 7.31 12.13	Per cent. 2. 43 . 559 1. 18		Per cent.

a Per cent solid in original solution 0.6805.

Mr. Cobb. The balance of the 100 per cent consists of carbohydrates largely and also has considerable food value. They are, however, too indefinite for chemical determination. The CHAIRMAN (inspecting samples). These are three different

samples.

Mr. Cobb. Those are three different cooks; that is to say, the different cooks that are made for the purpose of finding out the best combination of chemical, time, pressure, and so on. In order to determine the very best combination for any given material, you have to simply try different combinations, and that is what they have been doing, and that is what all these samples that they brought you over from the forest service mean.

The CHAIRMAN. I see here a very wide variation in the different samples. In one the moisture is given as 3.42 per cent, and the next

one at 40.5.

Mr. Cobb. They sent over a special note on that from the Bureau of Chemistry, that it would be necessary to allow a factor there in order to bring that series of results to the same basis as the others,

and that calculation has not yet been made.

The Chairman. In one of these glucose is given as 2.43 per cent, in one as 0.5 of 1 per cent, and in the other as 1.18 per cent. Sucrose is given in one as 0.56 of 1 per cent, in another at 0.48 of 1 per cent, and in the other at 1 per cent. That would not be an average of 3 per cent of saccharine matter.

Mr. Cobb. You have to add the glucose and sucrose together to

get the saccharine matter.

The CHAIRMAN. That would not make an average of 3 per cent. Mr. Cobb. No; I do not presume that is an average; that is the highest one there.

The CHAIRMAN. There would not appear to be any very great value

to this by-product.

Mr. Cobb. There is the nitrogenous matter; that is valuable food,

far more valuable than the saccharine matter.

The CHAIRMAN. Yes; there is 10 per cent of proteid matter, which would hardly be considered a profitable food if nothing else of food value was in it.

Mr. Cobb. I do not know whether Mr. Sutermeister brought out this point, but I presume he did, that this first treatment ought not to be taken altogether in the light of producing this stock food, because it reduces the amount of chemical that would be necessary in the subsequent treatments. All this matter would have to be destroyed or removed otherwise.

The CHAIRMAN. That is true. The point is whether the taking out that so-called stock food is of itself a very profitable operation, so as to reduce the expense of reducing the rest to fiber.

Mr. Cobb. Yes; that is the whole question.

The Chairman. Apparently that 300 pounds of the extract there is not of any very great value.

Mr. Cobb. I do not know yet what its value is.

The CHAIRMAN. I mean any very great value as a food.

Mr. Cobb. I would not like to make an estimate in dollars and cents of the value per ton of the material obtained in that way, but we shall obtain that, and we are obtaining it now. The same sort of material is in constant use as stock food.

The CHAIRMAN. In what respect?

Mr. Cobb. In Hawaii they have a very similar product as a result of sugar boiling, and that is one of the principal ingredients in the rations for the mules, which are the only animals they use on the plantations as draft animals. They use this waste molasses, which closely resembles this, with the cane tops, as a ration for the mules. They also use it on the cattle ranches in Hawaii.

The CHAIRMAN. Does that not have more than 3 per cent of sac-

charine matter?

Mr. Cobb. It would be more than 3 per cent; yes; but I doubt whether it would be more than 18 per cent.

The CHAIRMAN. There is a wide variation between 3 per cent and 18

per cent?

Mr. Cobb. Yes; that is the variation between our figures and these of Sherwood's.

The CHAIRMAN. It is a variation between the claims that have been made and the actual experiments that you have made?

Mr. Cobb. That is right.

The CHAIRMAN. Go ahead with your experiment, Doctor.

Mr. COBB. It is a fair proposition to consider that first digestion with water alone, as it does yield this food product, a product concerning whose value as food there can be no question; I do not say whose exact value. If you had it, you would feed it to your stock; that is I am not arguing for its great value or anything of that sort, but considering the fact that a food product can be obtained that has value, and also the fact that that same process renders the cornstalks more amenable to the rest of the process, it is a fair consideration to take into account whether that may not prove a profitable We are just in this condition at present; we have not given any decision one way or the other. We have obtained the product. We know how much there is from our particular experiments, and we will, as soon as we can get at it, have other experiments with fresher cornstalls. We are submitting this stock food to the actual farmers in samples for estimates as to its value, but we have not yet received any returns. We only got the returns from the Bureau of Chemistry this week, and we are now sending out the samples to the men who deal with that class of product and asking them for their estimate of its value for any purpose whatever, not only for stock food, but if it can be used for making commercial alcohol or anything else.

The CHAIRMAN. Could it be used for making fertilizer?

Mr. Cobb. Yes, it could; but I doubt very much whether it would be worth as much for that purpose as it would for other purposes.

Then the next thing that we took into consideration, or not exactly the next thing, but that which I will bring up here next, is the difficulty that will arise in connection with any attempt to convert cornstalks into paper, owing to the bulk of the raw material. That is something that I think I have given more attention to than anybody else has, and there I can see very considerable difficulties. Even a small paper mill requires an immense tonnage of stuff, and you can not bale this cornstalk stuff up and put it into small bulk. If you do, it will spoil. Not only will you fail to get this extract, but the fiber itself will deteriorate.

The CHAIRMAN. How do you mean; from what cause?

Mr. Cobb. From the heat of fermentation. The moment you press cornstalks into bales they begin to spoil. The only way you can keep cornstalks good and sweet as fodder is to give them air. That is a well-known fact.

The CHAIRMAN. The great difficulty now in handling corn stover, which is cornstalks cut up on a farm, is to keep it from fermenting

and spoiling, even where it is thrown loose in a bin.

Mr. Cobb. Of course. That refers not only to getting out this extract, but if it ferments, the heat itself may destroy the value of the fiber; and that means that this stuff has to be handled, not compressed. Now, look at the space that would be required—storage space.

Mr. Sims. And freight space.

Mr. Cobb. And freight space for that stuff.

The CHAIRMAN. I asked Mr. Sutermeister how many cords there were in a ton of cornstalks. Can you tell us that?

Mr. Cobb. No, I could not. It would depend entirely on how

they are packed; it would be a very difficult thing to tell.

The CHAIRMAN. I do not mean compressed. How many cords

would there be in an average ton of cornstalks piled up?

Mr. Cobb. It would be purely guesswork; it would not take long to make an experiment.

The CHAIRMAN. That is the very first thing that we ought to know

in judging as to the value of this cornstalk proposition.

Mr. Cobb. There is no question at all about its being much more bulky than wood, but as to giving you the exact figure, I would not like to do it. It would be pure guesswork, and rather than hazard that, I would prefer to take cornstalks and make an actual experiment, and we could get the figure in half a day.

The CHAIRMAN. That goes right to the essence of the question as to the commercial possibilities of handling cornstalks. What would

be your approximate judgment, then?

Mr. Cobb. I would say that a shock of cornstalks, approximately 4 by 4 by 4, might weigh 300 pounds. It would depend on their dryness.

The CHAIRMAN. According to your guess, then, it would be about

7 cords to the ton?

Mr. Cobb. And a cord of wood, as you were saying, goes to about 4.000 pounds.

The Chairman. A cord of fresh spruce goes about 3,500 to 4,000

pounds, according to the dryness of it.

Mr. Cobb. It is really a very difficult thing to estimate on cornstalks, because though I put cornstalks up one way, another man puts them up another way. There are the tassels and the leaves.

The CHAIRMAN. Mr. Sutermeister guessed it would take about

3 cords to the ton.

Mr. Cobb. Three cords of cornstalks to weigh a ton?

The CHAIRMAN. He did not undertake to say exactly; it was a pure guess.

Mr. Cobb. If you cut off the tops and feed off the leaves, as a farmer

naturally would, I do not believe he is very far off.

The CHAIRMAN. I am talking about cornstalks that would be used for paper making, from which you would not take the trouble to take off the tops or the leaves.

Mr. Cobb. I guess, Mr. Mann, that they would feed those off some

wav

The CHAIRMAN. There is no way of feeding them off without cutting them off or turning cattle in on them, in either of which case the cornstalks would be ruined.

Mr. Cobb. They have to be kept fairly clean for paper purposes; there is no doubt about that.

Mr. Sims. I think Mr. Sutermeister meant to be baled.

The CHAIRMAN. No; I think not. Mr. Sims. I am not positive about it.

The Chairman. I suppose he had no better idea of it than we had;

we asked him to give his opinion in regard to it.

Mr. Cobb. There is no question at all; it is such a bulky material that the matter of storage is a serious question. Of course, up to spring, I suppose it would work out in this way, that the corn would stand in the field, which is a well-known thing. That portion of the storage does not seem to me to present any serious difficulties, but from the time the farmer wants his land, then it would be a serious problem.

The CHAIRMAN. Have you considered the advisability of making experiments with cornstalks with a view of producing not corn, but

stalks suitable for paper making?

Mr. Cobb. Yes, sir.

The CHAIRMAN. Has any experiment been carried on designed for

that purpose?

Mr. Cobb. I have here my outline for that. When the money was first voted on your recommendation, that idea was taken up among

the very first.

The CHAIRMAN. It might be possible, I suppose, to get a stalk, either a cornstalk or broom stalk or cane stalk, which would have very little saccharine matter in it. We might reduce the quantity of the pithy matter in it, and certainly get away from the idea of the corn. In other words, from my own point of view, it is absolutely impracticable to make paper cheaply out of the refuse cornstalks left on a farmer's field after taking the corn, but a plant growing so rapidly and doing so well in much of our temperate climate, it might be possible to develop a cornstalk for use in paper making which could be raised in large quantities immediately around

the place where it could be worked up.

Mr. Cobb. That is something that I have gone into. I have taken it up from a little different point of view from what you have, I think, because I rather considered the combining of these two things rather than growing a cornstalk especially for paper. My course was this: I went to Mr. Hartley, our corn expert, and said: "Mr. Hartley, you have charge of a lot of experiments with corn and are growing a great number of varieties. Could you not make some observations on the different varieties of corn that you are growing with reference to the probable amount of fiber that they contain? There is no reason to suppose that corn does not vary just as much in this respect as it does in any other." He agreed. If there is one variety of corn, a variety that is characterized by a larger amount of fiber and a smaller amount of pith than the others, that is the corn we want to get onto for this purpose.

The CHAIRMAN. Of course, they have done almost everything with corn. They not only find that they can develop corn in color or in cob, as they do in Missouri, but they can develop it in saccharine matter; they can develop it in various other matters; they can produce long ears or short ears, or cars large around, or most anything else they

please, by a little selection.

Mr. Cobb. I have no doubt whatever that that is a very promising line of experiment.

The CHAIRMAN. The same thing might be made with broom corn

Mr. Cobb. I believe there we have done that. If broom corn was only grown to the extent that corn is, we would have taken broom

corn right away.

The CHARMAN. I think the error under which you have been laboring, according to my point of view, is in assuming that you may utilize the cornstalks from the farmer's field which he raised to get the

Mr. Sims. In other words, to make the stocks a valuable by-product

to make paper.

The CHAIRMAN. Yes. I do not think that is possible, and I say that simply from having been raised on a cornfield and having lived on a cornfield, and then having studied this paper subject as well as I could. Show us the results of your cornstalk experiments, Doctor.

Mr. Cobb. I have already given you those figures. Then, as I said, we have examined the quality of the fiber produced, and we get an average on our present experiments of 1.25 millimeters in the fiber, and the quality of that fiber is, so far as we have been able to experiment with it, very fair.

The CHAIRMAN. What is the other table there?

Mr. Cobb. That is the result of the chemists who are employed by Mr. Sherwood in analyzing a sample of his stock food which he submitted to us.

The CHARMAN. That is what he claims he can get out of the stalk? Mr. Cobb. That is the return that his chemists gave.

The CHAIRMAN. We would be glad to have that, too.

The table referred to is here printed in the record in full, as follows:

OAK PARK, ILL., June 22, 1908.

Mr. C. J. Brand, Agricultural Department, Washington, D. C.

DEAR MR. BRAND: I inclose herein a sample of food extract from cornstalks.

Extract contains:	Per cent.
Moisture	10.0
Ash	
Insoluble matter	7. 2
Protein	9. 8
Sucrose	
Glucose	
Nonsugars	
Mineral matter present (ash):	
Carbon dioxide	20, 55
Chlorine	2. 54
Sulphur trioxide	
Phosphorus pentoxide	6. 61
Potasia	22, 42
Soda	25, 47
Iron and alumina	
Lime	
Magnesia	
Matter insoluble in water and acid.	

In practice it will be evaporated to about the consistency of molasses, then mixed with ground forage (absorbent), and should be sold to the trade on its food value.

Please note, particularly, that a new industry opens up on this food extract, to wit (after refining), for beer, for bread making, for table sirup, etc. I wish to call especial attention to this product. This sample is 2 years old.

Yours, very truly,

The CHAIRMAN. In your cornstalk experiments what did you actually

produce?

Mr. Cobb. We produced this extract, first of all, then we produced a mixed pulp which was treated with the sieves, with the result of obtaining a separated pulp consisting of (1) the fiber and (2) the pith cells, and the samples of paper pulp which Mr. Sutermeister showed you were made from those two different qualities of pulp. Then we obtained results of measurements on the ingredients which composed those papers which I have just been giving you. The Chairman. What do you call this by-product?

Mr. Cobb. I suppose you would call it a stock food. Perhaps that

is as good a term as you could use.

The CHAIRMAN. Well, using the term "stock food" with some reservation from me, how much of that did you get per ton, dry weight, of corn fodder?

Mr. Cobb. About 300 pounds. I have not the figures on that. Mr. Sutermeister, I presume, gave you them, but he would give them

from the original data, and it is about 300 pounds.

The CHAIRMAN. I thought you had the figures here. That is what he told us, 300 pounds. Then he said that they got about 850 pounds of pulpy matter.

Mr. Cobb. Yes, sir; that is right.

The CHAIRMAN. Of which about 250 pounds was fiber.

Mr. Cobb. Yes, sir; about one-third; that is right.

The CHAIRMAN. That is not one-third, and that is what I wanted to ask about, whether those figures were correct, if you had the figures here?

Mr. Cobb. I would have the same figures he has—just the same.

You see, he would be my source for those figures.

The CHAIRMAN. That corn fiber that you get—have you had that

examined by any experts?

Mr. Cobb. We have examined that in the Bureau of Plant Industry;

The CHAIRMAN. Have you had it examined by any experts in the paper-making business, I mean?

Mr. Cobb. Well, I have examined paper a great many years. The Chairman. The pith, when it comes out, you say, occupies a good deal more than its proportionate space?

Mr. Cobb. In the pulp it does; yes.

The CHAIRMAN. When it is separated it shrinks very much?

Mr. Cobb. Very much, indeed; yes.

The CHAIRMAN. Have you figured on what that stuff is good for? Mr. Cobb. I have, to this effect: There is no doubt it could be used as a substitute for those products that are used in making strawboard or boxes or cardboard of various kinds. The quality of it, however, to my mind, is rather superior to the ordinary strawboard.

The Chairman. What makes you think it could be used in place of

strawboard?

Mr. Cobb. From the qualities shown in those samples [exhibiting samples].

The CHAIRMAN. These are not the pure pith.
Mr. COBB. Well, this machine does not make a pure separation of pith and fiber. Of course, I presume if you did it times enough over you might make something like a pure separation.

The Chairman. Now, you say you think you can convert that into board?

Mr. Cobb. There are lots of things that it can be made into; there is no question about it.

The CHAIRMAN. That is the question. Board has a very large

amount of fiber in it.

Mr. Cobb. Yes, it does, as it happens, but it is not necessary.

The CHAIRMAN. They tell us that it is; that is what the paper mills say; they may not know. This has practically no fiber in it and no tensile strength to it.

Mr. Cobb. There is considerable strength to it. The CHAIRMAN. Very little tensile strength to it.

Mr. Cobb. There is just as much strength in it, Mr. Mann, as in any amount of stuff converted into cardboard boxes. You buy a suit of clothes, and you get it back in the boxes the stuff of which is not as good as that. I call your attention particularly to the effect of pressure on the stuff. This has not been bleached to the extent it might be, and there is a possibility of it replacing articles that are now made of celluloid. It has this property, which is rather striking, and I fancy there can be no doubt it is useful; for instance, you wet it and you can bend it, and it will hold the shape.

The CHAIRMAN. Part of this has been calendered. Where was that

done?

Mr. Cobb. By the Warrens, in the Cumberland mills, Maine.

The CHAIRMAN. You say these samples come from Warren's Cumberland mills?

Mr. Совв. Yes.

The Chairman. They were not samples which were produced from the experiment here at all?

Mr. Cobb. No.

The CHAIRMAN. Have you any samples that were produced here? Mr. Cobb. Nothing except these hand-made samples at all.

Mr. Sims. These are not paper.
Mr. Cobb. No; they do not claim to be. We have no machine here. That is one fault which I found with the Forest Service outfit at the very beginning. I said, "You have gone just not far enough. have put in a small pulp mill, but there you have stopped short; you should have put in a small paper mill to go with it."

The CHAIRMAN. Considering the fact that Warren, at the Cumberland mills, has been experimenting with this cornstalk proposition for many years at a very great expense, I do not quite see the theory

of the experiments that are carried on here.

Mr. Cobb. The theory was this-

The CHAIRMAN. You have learned something new, have you?

Mr. Cobb. We have learned some things that are new. We have not claimed, so far, to have discovered anything original, but here was a process which it was claimed would do certain things.

were we to do, to assume that that was so?

The Chairman. I do not see why you needed to assume anything at all about it. Here was a large company carrying on an expensive experiment of its own, involving this same process, in order to determine the commercial possibilities of the use of the process, which they could determine. It was impossible for you to determine the commercial possibilities of it, and yet the experiment here has been simply a reproduction of a small portion of the experiment that the Warrens have been carrying on for years.

Mr. Cobb. That is not the way I look at it. I went to see one or two mills, and saw Mr. Warren and had a talk with him, and ascertained as much as he was willing to tell me-of course, I presume he knows things he did not tell me, but I confess I think he was very frank with me—and it was after the conversation with him and finding out what he knew that we concluded to take it up. In the first place, the only thing Mr. Warren has done, as I understand it, is to take samples that have been produced by Mr. Sherwood himself. or his employees in Chicago, and convert them into paper according to his and Mr. Sherwood's idea. Mr. Warren has been growing some corn this year. I understood from him that this was the first corn he had been growing with this object in view. Meanwhile they have been experimenting with other things and have expressed great interest in two things—this was with a view to a possible cooperation that I went to see him—the two things that he expresses the greatest interest in as having the greatest possibilities in connection with possible sources of paper were corn first and the salt marsh rush along our Atlantic coast second.

Mr. Sims. You have made studies of other plants besides corn which you have not given us?

Mr. Cobb. Yes.

The CHAIRMAN. Did you find that Warren had used any of this pith pulp?

Mr. Cobb. These samples I showed you are his production.

The CHAIRMAN. I mean have they used any in the making of paper or any other product?
Mr. Cobb. You mean as issuing from the mill?

The CHAIRMAN. Yes.

Mr. Cobb. No; I do not understand they have made and sold any paper from corn. I do not know whether they would have a right to. I suppose Mr. Sherwood would claim that his process had been infringed, or something of that sort.

The CHAIRMAN. Here is a sample that purports to be a commercial

sample.

Mr. Cobb. Stock jobbers can claim all they like. We can not tell

about those things. We had to find out for ourselves.

The Chairman. What I am trying to find out is what you did find

out in regard to Warren. I did not get this from Sherwood.

Mr. COBB. I can only tell you what I understand in regard to Mr. Warren. I believe he has made papers on his small experiment mill from Sherwood's material.

The CHAIRMAN. He has a mill in which they make very valuable experiments all the time, doing a great deal of work. What other experiments have you conducted? Have you made any estimates at

all as to the cost of handling the cornstalks?

Mr. Cobb. I have gone into it several times and have had others go into it, and must say have come to a different conclusion from what you have. [Exhibiting map to committee.] Take in this area, the densest portion of the corn belt; that map shows the distribution of our corn. I believe, from the estimates I have made, that almost anywhere in that region a mill located at a good railway center and

not having any discrimination against it could pay in the neighborhood of \$5 a ton for stalks, and that where certain kinds of corn are grown, which are very largely grown, Mr. Hartley tells me, that the farmers could part with it at \$5 a ton, and would do so, if not all of them, a sufficient number, in a 75-mile radius, to run a small mill. Roughly, that is my present opinion, and you can see I have given you the data on which it is based. You see how incomplete it is. We have really only analyzed a single corn, and we had to start this under unfavorable conditions as to season of the year.

The CHAIRMAN. The mill, if you could locate it at all, would necessarily have to be a small mill in a district where they grow corn very extensively, and necessarily located close to a coal mine, I take it.

You would have to be close to a coal mine, would you not?

Mr. Cobb. You would have to have cheap power, of course.

The CHAIRMAN. You would have to have cheap coal, would you not? I am not talking about cheap power.

Mr. Cobb. That is the source of power.

The CHAIRMAN. Oh, no; this is a soda process. There is no soda process, as I understand it—let us see what your understanding is—that can live long in paper-pulp making unless you can recover the soda?

Mr. Cobb. Yes, that is true; you have to have heat.

The CHAIRMAN. And the recovery of the soda requires an enormous

amount of fuel?

Mr. Cobb. Yes. Of course, thus far we have not made any experiments such as have been rather crudely outlined and thrown into the future, simply because this seemed to be the thing to go at first. We may have made a mistake in taking this thing first, but we used our best judgment. There is a proposition of compressing the fibers together in such a way that they can be ground.

The CHAIRMAN. What do you mean by grinding?

Mr. Cobb. Just as you grind wood. It is conceivable, of course, that by forcing stalks of some crop—I am not speaking of corn now, but anything of the kind—through an aperture or a compressor that can be worked at right angle to the axis of it, at the same time putting on periodically a pressure at the back, like the pressure that is put onto a log of wood, you could compress some of this matter so as to grind it. That is conceivable. I do not know that anybody has ever tried it.

The CHAIRMAN. I am not sure whether it is conceivable or not. You would have to press it with the stalk before cutting it up, of

Mr. Cobb. If you will just take a stalk of maize, Mr. Mann, and a grindstone, and wind it with string to keep it from splitting, and press it against the grindstone, you will see that it can be ground off. Doing that under pressure, it would be all the more feasible, it seems to me.

The CHAIRMAN. This pithy matter would make too crackly a paper

for news paper?

Mr. Cobb. It is out of the question for anything to be printed on, of course. The only use I can see for that is something that would come in competition with strawboard, and possibly in certain ways with celluloid.

The CHAIRMAN. But there is not as much fiber in this pithy matter as there is in ground wood?

Mr. Совв. Ño.

The Chairman. And yet ground wood can not be used successfully by itself in the manufacture of board-

Mr. Cobb. True enough.

The CHAIRMAN (continuing). Because there is not fiber enough in It might be used; I throw this out as a suggestion to you. They make what they call "undurated" pails and other household utensils out of ground wood, do they not?

Mr. Совв. Yes.

The CHAIRMAN. Whether they use any fiber in connection with it I do not know. If this molds easily, it might be possible to use this pithy pulp for that purpose.

Mr. Cobb. If they could be combined, for instance, with some substance that is even more impervious to water, then you might make

a great many articles out of it.

The Chairman. Mr. Sutermeister told us that he had experimented with this pith sheet and grease, and it was for some length of time practically impervious to grease. If it be impervious to grease, I take

it that very likely water would not affect it very readily.

Mr. Cobb. You can not call it waterproof, but water does not enter it readily; that is true. If you get the pith comparatively dry, to a stage so that you can mix it with some other substance, it is quite conceivable that you can make it into some material resembling what they call "xylonite," of which they make photographic trays and things of that kind.

The Chairman. Do you know whether this has any expansive

power when it is wet?

Mr. Cobb. Yes, it has; but it is not great.

The CHAIRMAN. I suppose you are familiar with the old proposition to collect corn pith and put it in between the plates on naval vessel, so that when a cannon ball should go through the side of the vessel that the pith would instantly expand under the water contact and fill up the hole?

Mr. Cobb. Yes.

The CHAIRMAN. They had that worked out very perfectly at one time. How far it was practicable I do not know, but I suppose this could not be used for that purpose?

Mr. Совв. No. You see, once those cells are dissociated they can not be put together. There is no question about the expansive power

of unaltered pith. If you compress it and then wet it it comes back.
Mr. Sims. That is, as pith?
Mr. Cobb. Yes. The cells are not yet dissociated, but this is a different thing. Every cell is taken from every other, and it is, as a matter of fact, collapsed. No, that would not have that pronounced ex-

pansive property.

As to the other plants that have been taken up, it seemed first of all the best thing to ascertain as nearly as possible how much of them there is. That idea we came to after trying to find out from various people how much of a given plant there is. The estimates were so various that it was pretty evident that it would require a great deal of care to get statistics that would be reliable, and we are gradually accumulating evidence from all the sources we can think of as to the distribution of plants that I mentioned earlier; that is, this wild salt marsh rush, so-called, and saw grass, and canebrake, and so on. It might interest you to see this map of the canebrakes which was prepared by Doctor Merriam's bureau. He had charge of the Biological Survey, and while they do not attempt to estimate the acreage of canebrakes, they say that that yellow coloration there gives an idea.

The CHAIRMAN. In other words, it is common all over the South, east of the Mississippi River?

Mr. Cobb. Yes.

The CHAIRMAN. Even west of the Mississippi River?

Mr. Cobb. Yes.

The CHAIRMAN. In the bayous and low ground?

Mr. Cobb. Yes; there is no question about that being convertible into paper. I have samples of the paper here, and, as I said before, prominent technologists in India, of world-wide reputation, have come to the conclusion that paper can be made from bamboo.

The Chairman. Is it not a fact that these canebrakes are very expensive to get at? You can not get it out without boats, and in many

places you can not use boats.

Mr. COBB. What naturally would be expected would be that a mill should be located there. It is not to be supposed that that stuff is to be carted up north and made into paper. That is out of the question. The mill would have to be located where the material is. The mill would naturally have to be located on the river bank, and this stuff would have to be brought in boats down the rivers or the water courses; and looked at in that light, it is in some places accessible matter.

The CHAIRMAN. Have you taken into consideration the fact that a pulp mill or a sulphite mill is a rather expensive proposition, or a

soda mill?

Mr. Cobb. It is something that requires several hundred thousand dollars to start a decent plant; there is no question about that.

The CHAIRMAN. You would have to have enough territory with

material tributary to the mill to last for a number of years?

Mr. Cobb. Yes; that is taken into consideration in the case of every one of these wild crops. We have taken those of which there was not only a quantity, but which we knew would reproduce if cut. The cane is one of those. That paper is made by Mr. Little, of Boston, who has also a technological laboratory. That paper is made of cane from the canebrakes. His opinion is there, and it coincides

entirely with that of these Indian experts.

Here is a report of the manufacture of paper from the salt marsh rush. These analyses were made at a well-known English laboratory from material sent by my colleague, Mr. Dewey. We sent over several hundred weight of this rush. It is the kind of "grass" you go out and shoot ducks in on the coast. The reports are favorable on that for certain purposes, especially as a fiber that might be mixed with ground wood, for instance, in making news paper. I will say in this connection that that stuff had been previously tried, and I think this shows to some extent the advisability of going at this matter in the way we have. That "grass" or rush, rather, has been tried by a mill in South Carolina, and they reported to us with regard to their

They said they could get any amount of this stuff at \$3 a ton, but that when they tried to convert it into paper it gave a pulp that was too mushy. Note that word "mushy." That is exactly the effect these pith cells have on pulp. Any paper maker would say, if you took that unscreened pulp from cornstalks, "Too mushy." For that reason I was very desirous, as soon as this process for separating out proved successful on corn, to see whether it would prove successful on rush, and in consequence we had it tried on tule grass, and the process was equally successful.

The CHAIRMAN. The tule grass is about the same as the cat-tail? Mr. COBB. No; it is not. Mr. Mann, it is more like this salt-marsh rush, really. It does not have a wide blade like the cat-tail; it is narrower and roundish. If you have ever seen any of the bottled beer that comes from the Pacific coast, the bottles are always done up in tule grass. It grows in great quantities on the Pacific coast rivers and is distributed all through the east and north in swamps. I think that a line of experiment, either public or private, should be kept up in connection with this separation. I do not believe that this process we have tried is the only way. I think it is extremely likely that some modification of this or some other process can be obtained by which the pith cells can be separated very cheaply. This is the first time it has been done by a separate machine. You can make a sort of a separation with a machine that is used in the usual paper factories.

The CHAIRMAN. This report is the report as to the salt-marsh grass. Mr. Cobb. I think that has already been made public. There would be no objection to using that. I would be glad to send you a

copy of it.

The CHAIRMAN. This is an official report.

Mr. Cobb. The form of it shows it is made to be published.

The Chairman. It is an official report. Whether it has been published or not would not make any difference to us.

Mr. Cobb. We did not pay for that, you know. In fact we have

made this money go about as far as we could, I think.

The Chairman. This sort of an experiment is a very reasonable and proper use of the money, though I do not quite understand why you have to send it abroad.

Mr. Cobb. Naturally we would have turned that over to the Forest

Service laboratory.

The Chairman. That would have been a great mistake, if you had. Mr. Cobb. But we took it up before we made the arrangement with the Forest Service at all.

The CHAIRMAN. If you can send samples of different plants to paper mills which have laboratories for them to experiment with and report

to you, why is not that the most satisfactory way of doing it?

Mr. COBB. It is, provided they have the proper facilities; but I find that, while they have the very best facilities for ascertaining the cost commercially of the different articles which they habitually use, outside of that range their fund of information is very small.

The CHAIRMAN. There are only a few that would have them,

probably.

Mr. Cobb. Very few indeed, I assure you. Experimental work is a very expensive thing. No matter how you try to save, if you get at

results you have to spend money, and these people are simply making money, and they do not divert very much of it to experiment work. You can not blame them. Perhaps when they started they did experiment, but once having started their mill they do not expend large sums of money in experiments, and none of them maintain experts of a very wide character of training. They are mostly men who have been brought up in the paper industry. It surprised me to find that very few of them employed graduates of our institutes of technology.

The CHAIRMAN. I think you will find that one of the results of this investigation will be that several of the pulp and paper mills will hereafter have a good laboratory with a first-class chemist at the

head of it.

Mr. Cobb. That will be a very good result.

Mr. Cobb here presented the following documents to be printed in the record:

> ANALYTICAL AND TECHNICAL LABORATORIES, Aynsome, Grange-Over-Sands, Lancashire, November 19, 1908.

Mr. Lyster H. Dewry.

Bureau of Plant Industry,

United States Department of Agriculture, Washington, D. C.

DEAR SIR: I have much pleasure in sending you with this letter my report on the salt marsh rush, samples of which you sent me some little time ago, and under separate cover I am sending you five samples of paper made from this grass. I regret very much that I have been so long in sending this forward, but I have had so very much to do in other directions that I have not been able to devote the necessary time to it.

The other smple, namely, fresh-water cord grass, I hope to have ready in December, and will then send you my report, together with specimens of paper.

If you at any time come across any other fibers which might be of use for papermaking purposes, I shall be glad if you will be kind enough to forward me samples for investigation. I wish very much to experiment with pineapple fiber (Ananassa satiba) and also with wild pineapple fiber (Bromelia sylvestris). Do you consider these to be of any use?

Should your department at any time require any investigations undertaken in connection with fibers, other than from a paper-making point of view, I shall be pleased to hear from you and cooperate with you.

Trusting that the report I am sending you will be of interest, I am, dear sir,

Yours, faithfully,

J. STEWART REMINGTON.

#### AMERICAN SALT MARSH RUSH (JUNCUS ROEMERIAMUS).

[By J. Stewart Remington, Douglas Dowack, and Bedford Dixon.]

This grass belongs to the natural order Cyperaceae. It is known in different localities under various names, such as "Fox grass," "White rush," "Marsh grass," "Salt grass," "Sea-salt grass," "Salt marsh grass," and "Rush marsh grass." It is a reed-like grass, from 1 to 4 feet in height, with 2 or 4 slender, erect, widely springing spikes. It is a common grass on salt marshes, ranging from the State of Maine southwards to Florida and along the Gulf Coast to Texas. It is also found growing in large quantities at many points along the coast from Massachusetts to Florida.

A sample of this grass was forwarded for investigation to the Aynsome Technical Laboratories by the director of the Fiber Division of the United States Department

of Agriculture some few months ago.

In the following account of the work which has been done in connection with this rase will be found the results of the various trials made and methods employed in

the production of paper from the pulp obtained.

The sample consisted of about one hundredweight of a stiff, dark-brown colored grass, closely resembling the rushes that thrive in the marshy districts of this country, being smooth, cylindrical in shape, varying in diameter from one-eighth to one-six-teenth inch, and having an average length of about 3 feet.

The chemical examination of the fiber gave the following results, the percentages, except that of moisture, being expressed on the dry fiber:

#### Analysis.

	Per cent.
Moisture	11. 90
Ash	3. 17
Loss on $\alpha$ hydrolysis	20 77
Loss on & hydrolygis	41 88
Loss on mercerization.	19.52
Gain on nitration.	21 34
Cellulose	

Length of ultimate fiber, 2 millimeters.

The fibers, on casual inspection, appear to consist of a mixture partly resembling the tracheids of wood, while in other respects they may be likened to jute fibers and also esparto. They are short and narrow, smooth, cylindrical, and gradually tapering to blunt points, often occurring in the form of small bundles. The central canal is narrow. The chief characteristic, however, is the appearance of a number of groups of curiously pitted cells, which remain unchanged throughout the preliminary treatment and are to be found as small specks in the finished product.

It will be readily seen from the above results and observations that the grass is

capable of producing a good fiber and at the same time a reasonable yield of pulp. A large number of practical experiments were carried out in connection with the

boiling of the grass, which may be summed up in the following résumé:

Boiling.—Several preliminary trials were made, in order to arrive at the best and most economical means of obtaining a good pulp. Owing to the great action exerted upon the material by alkali, as demonstrated by the loss of weight sustained in the process of hydrolysis and mercerization (see chemical figures), it was decided to employ caustic soda in the treatment of the fiber for the isolation of the cellulose, in order to take advantage of allowing by simple means the recovery of the alkali, which would result in a reduction of the original cost for soda caustic. Moreover, it was found that caustic lime tended to produce a hardening effect upon this kind of fiber.

The natural grass was cut into small lengths of about 2 inches and then soaked in water for about one day before being put into the digester. The boiling process in each case was performed in a stationary digester, with a readily adjustable heat sup-

ply, giving the operator complete control over the conditions of boiling.

The first charge was treated with soda liquor of a strength equivalent to 4 per cent caustic soda for a period of six hours, at a steady pressure of 4 atmospheres and a temperature of 140° C. This experiment was conducted with the special object of arriving at good minimum working conditions. On the completion of the boil, the whole of the contents were thrown out into a large sieve. On draining and washing, it was found to be underboiled, all the soda having been consumed without completely resolving the cellulose constituents.

The above operations were repeated on a larger scale, the proportion of soda being increased to 8 per cent. On this occasion the grass was allowed to boil for eight hours at a reduced pressure of 3 atmospheres. The product, on examination after a preliminary washing, was found to be much cleaner, but still slightly underboiled. The liquor contained no free alkali, and after one or two further determinations, with increased quantities of soda, the most satisfactory conditions, with regard to both quality and yield of pulp, were obtained by using the materials in the following proportions:

Caustic soda, 12 per cent. Time of boiling, ten hours. Pressure, 4 atmospheres.

The resulting product obtained by this method was broken up, cleaned, and washed,

37 per cent of raw unbleached fiber being produced.

Bleaching.—A number of experimental bleachings were carried out on the pulp in the rough state. This was found to be rather dark, and some difficulty was at first experienced in obtaining a product of good color. The most satisfactory results were obtained by the use of 10 to 11 per cent of bleaching powder, for about two hours, continual treatment in the beater, and subsequently allowing it to remain for a considerable time before washing.

The bleaching was assisted by the addition of acid liquor calculated so that the liberation of hypochlorous acid should be unaccompanied by the evolution of any free chlorine. It was found that the pulp was quickly acted upon by the bleaching agent up to a certain point, but all efforts to develop much improvement after this stage was reached were unsuccessful, except by washing out the products of the

bleaching action and treating further with a weak alkaline solution, rewashing, and finally repeating the bleaching process. It may be here mentioned that some considerable care is necessary in carrying out the bleaching operations in a satisfactory manner, as this pulp contains a fair amount of lignified fiber and is consequently readily liable to form yellow chlorination derivatives of the less resistant cellulose to hydrolytic treatment. This difficulty was overcome by maintaining a basic reaction throughout. Attempts were made to bleach with sulphurous acid in various conditions, but the calcium hypochlorite was found to be the most efficient.

Some interesting experiments were made by bleaching this pulp in the sun, excellent results being obtained, seemingly somewhat better than those arrived at under favorable conditions in the beater. The amount of manipulation required, however,

would not admit of the employment of this method on a large scale.

Siring, loading, etc.—Sufficient of the bleached pulp having been obtained in a pure state, by means of washing until free from dirt and other matter, some of the auxiliary preparations, such as the use of an "antichlor," were dispensed with. In certain cases where the pulp was sized the engine-sizing process was generally adopted. When the pulp was nearly ready for running, the rosin size, in the proportion of from 3 to 5 per cent, was added to the mixture of pulp and filling, shortly after the latter was incorporated, and the complete reaction brought about by the addition of the requisite amount of alum to the contents of the beater. At this stage of operations some delay was experienced in dealing with a rather unusual amount of frothing that was produced in the beater, which was finally removed on the addition of a small quantity of paraffin.

During the determination of rosin in the finished paper, it was noticed that there had also been extracted a quantity of foreign matter, other than rosin, of an oily nature, which, on further investigation, was found to have been derived from the original pulp. The presence of this matter appears to have a beneficial effect upon

paper prepared from the unsized pulp.

Manufacture of paper on model mill.—In the following scheme of procedure several specimens of good paper were made, both with the marsh-grass fiber alone and also in

conjunction with certain other pulps.

It is not proposed to enter on a detailed description of the methods of working and running on the paper machine, as all the papers prepared were furnished under similar conditions, and but for a little variation in their respective felting properties, which was regulated from time to time by a suitable adjustment of the couch roll, gave most satisfactory results.

After leaving the press roll the paper was passed over a series of nine drying cyl-

inders, and finally through two rollers.

When used without mixture with other fibers, the salt-marsh pulp yields a close sheet of paper, suitable for good wrapper or casing purposes, and makes a smooth and glossy surface under the calender. It is capable of carrying a considerable amount of loading, and when sized will stand a severe test.

A specially good and uniform paper was produced from a mixture of this fiber with mechanical wood and sulphite pulp, 50 per cent of the former being included. This paper, when suitably loaded, would prove very suitable for an average writing, printing, or art paper, possessing an excellent texture, and having superior "feel" and "handle" properties. Unfortunately, no means was discovered of preparing the half-stuff in such a manner as to avoid the production of paper having speckles on the surface, unless subjected to a very severe treatment, which would be detrimental to its value as a finished article. This fault is caused by the presence of a large number of groups of cells in the fiber, which has been previously referred to, and, but for this fact, a high-class writing material could easily be manufactured.

In the following table will be found an account of the chemical and physical char-

acteristics of the principal samples of paper prepared:

	Chemic	al constit	uents.	Physical properties.				
Furnish and composition of paper.	Moisture.	Ash.	Rosin.	Breaking strain in pounds.	Stretch.	Folding test.	Thickness in inches.	
Salt-marsh grass pulp: Unbleached, unsized. Bleached, unsized. Bleached, sized, loaded. Salt marsh, 50 per cent: sulphite pulp. 25 per cent: mechanical	11. 45 11. 16 10. 45	Per cent. 2. 44 2. 79 5. 42	Per cent. Nil. Nil. 5.04	23 95 19 14	Per cent. 2.34 1.25 1.97	674 547	142	
wood, 25 per cent; bleached, sized	9.60	1.80	1.70	16. 25	1.44	837	781	
pulp, 50 per cent; bleached, sized	8.00	2.71	1.98	13.54	1.16	925	ıb:	

It may be pointed out that the resistance to strain and stretch was determined only on the "way of machine" of these papers, and is not an absolute measure of strength, but useful for the purpose of comparison. Allowance must also be made in each case for the variation in degree of thickness.

Aynsome, Grange-over-Sands, November, 1908.

Mr. Cobb. This is a small map which is the result of a great deal of correspondence. It shows the range of the saw grass. grows in the Everglades of Florida. We have not gone very far with that, because we have not seen how that stuff could be got at. You will remember that there was a railway pushed through down there; you probably saw an account of a "dry-land boat." They had to engineer through the Everglades, and in order to do it they constructed a special machine that enabled them to go in. I have started some correspondence to see what there is in it, but beyond that we have not done much. With regard to cotton stalks, I would report that we have them in Washington; and we have this point, which, so far as I know, is a novelty, but I would not be at all surprised if somebody else had hit upon the same idea: Noticing that cotton stalks standing in the field in the winter sometimes lose their outer white bark, it occurred to me if they lose that so easily, then by moistening them and agitating them mechanically that might be so removed. One of the greatest obstacles in making paper from cotton stalks hitherto has been in bleaching. If you will notice on these samples, there are specks all through the cotton-stalk paper. is very difficult to bleach that stuff. That results from the presence in the pulp of bark that has not been removed or bleached. have, in the Division of Agricultural Technology, of which I have charge, a man who is devoting his time to cotton, Professor Bennett. who has charge of some of our cotton work, and I asked him to make observations on this line I have just indicated. I noticed myself the fact that the bark would come loose, and I asked him to try different varieties of cotton, by soaking them and agitating them, and observe whether this bark could be removed mechanically, and he reported to me very recently, just a week ago, that he has tried it, with some success. Some lots of cotton stalks have just come to our laboratory, and my suggestion is, of course, that they take a small agitator, a laundry washing machine, or something of that sort, that will not cost much, and exploit that point a little more thoroughly. Where water power was available, or perhaps even where it was not, it would be possible to get rid of the outer bark by a mechanical agitation, which might be a very important step toward the utilization of cotton stalks for paper.

Mr. Sims. Have you a paper to submit on the cotton-stalk propo-

sition like the one you submitted on the marsh grass?

Mr. Cobb. No; we have not.

The CHAIRMAN. Do you regard the manufacture of paper from

cotton stalks now as a commercial possibility?

Mr. Cobb. The matter of collecting and handling the cotton stalks would be even graver than that connected with corn.

The CHAIRMAN. And there is no possible stock food?

Mr. Cobb. No.

The CHAIRMAN. On the other hand, you get a very much larger percentage of fiber per ton?

Mr. Cobb. I think there is a larger percentage of fiber.

The CHAIRMAN. Do you remember the quantity of fiber per ton? Mr. Cobb. No; I do not.

The CHAIRMAN. There is no pith, of course?

Mr. COBB. Oh, yes; there will be pithy matter, but the amount of fibrous matter is greater than it is in corn, I think.

The CHAIRMAN. I thought there was no pith in the cotton stalk?

Mr. Cobb. Oh, yes.

Mr. Sims. There is seemingly a heart in cotton?

Mr. Cobb. There is no nonwoody plant that has no pith.

The CHAIRMAN. I think Mr. Sutermeister testified to us that they got no pith in the cotton stalk.

Mr. Cobb. There is pithy matter in the cotton stalks.

The CHAIRMAN. Do you get anything which you have separated from the fiber, or do you remember?

Mr. Cobb. No; we have not yet. The cotton stalks only arrived

here day before yesterday for our experiments.

The CHAIRMAN. Where did all these samples come from, then-

these cotton-stalk samples?

Mr. Cobb. Those are some that were previously made by Mr. Sutermeister or his predecessor at the laboratory there.

The CHAIRMAN. Where?

Mr. Cobb. Before this was instigated at all, before you secured the

passage of this item in the appropriation bill.

The CHAIRMAN. We understood Mr. Sutermeister to inform us that under that appropriation he had been carrying on experiments with cornstalks and cotton stalks, tule and rice straw.

Mr. Совв. That is true.

The CHAIRMAN. It is true in a sense.

Mr. Cobb. The experiments with cotton have come to this stage, that we have just got the cotton stalks here.

The CHAIRMAN. You have not carried on the experiments with

cotton, then?

Mr. Cobb. We have had some very important observations made on the field.

The CHAIRMAN. Doubtless Mr. Sutermeister was having reference

to the experiments which he had previously carried on.

Mr. Cobb. I presume so; I think that would be true. If you have the other impression, I think probably that is incorrect. I think he must have meant to refer to experiments here which he made before

this appropriation was obtained.

Mr. Cobb. Pith is not a good term to use, and really that is the objection always to a common term; it generally has a variety of meanings, while a technical term has only one meaning. This sample of rubber twig illustrates [exhibiting] the difference in the two portions of the plant. That inner portion [exhibiting] is all pith; there is no fiber in it at all.

I was going to explain how Mr. Sutermeister might have stated

that there was no pith in the cotton stalk.

The CHAIRMAN. We did not ask him if there was any pith in cotton stalk, but whether he got any pithy pulp.

Mr. Cobb. He did not have the machine to separate it.

The CHAIRMAN. As a matter of fact, then, in your opinion, when you do make the experiments with the cotton stalks now, you will have to separate the pithy pulp from the cotton stalks?

Mr. Cobb. Certainly.

I do not know whether you have seen a map of the distribution of the paper mills [exhibiting chart].

The CHAIRMAN. I have had it in mind.

Have you given any attention in your investigations to the subject of so-called "Kraft" paper and its manufacture in the United States? Mr. Cobb. No; we have not.

The CHAIRMAN. You know what the Kraft paper is? It is a very

light weight, extremely strong wrapping paper.

Mr. Cobb. Yes, sir; I know.

The CHAIRMAN. It is now being imported into our country in considerable quantities, and the weight is not over one-half the weight of ordinary wrapping paper, and in some cases not so much as that. I was told by a gentleman who ought to know that that paper was made from resinous pines in northern Europe, and if so, and we could utilize the waste or a by-product of the resinous pines of the South for the manufacture of the supply, it might be very desirable.

Mr. Cobb. I will look into that.

The Chairman. That is made, I think, by the so-called sulphate process, which can not be used where there is very much population.

Mr. Cobb. The process is very deleterious to health.

The Chairman. I do not know that it is not unhealthy, but there is a very bad odor. They say it is like a rotten-egg factory. I do not know.

Then, in the course of your experiments, I wish you would consider the proposition of trying other woods for ground wood besides spruce, and possibly ascertain from some of the mills how far they have experimented with it, what success they have had, and what difficulties they have met with, with the possible view of obviating the difficulties in grinding other kinds of timber besides spruce. The present process of grinding wood, while exceedingly cheap, is also exceedingly crude. It might be that it would be possible to grind other woods than spruce, and possibly some wood that would reproduce very rapidly. They make to-day soda fiber out of cottonwood. The soda-fiber process is too expensive to make news print paper from. Cottonwood grows very rapidly in many places, willow grows very rapidly in many places, and probably other trees grow rapidly and reproduce rapidly. If it were possible to reduce that class of wood to ground wood it seems to me it would be a very valuable acquisition. I do not understand why it is not possible. With your knowledge of the form of the cellular matter, you might be able to make discoveries in reference to that.

Mr. Cobb. I will certainly call the attention of the forestry people to that question. It is one that would naturally fall to them rather than to the Bureau of Plant Industry. I see what you mean and I will

not lose sight of it.

The CHAIRMAN. Some time ago the newspapers quite generally printed dispatches and articles purporting to be statements about the results of these experiments as to cornstalks, etc., stating that they could make paper out of cornstalks for about \$15 or \$20 a ton. What have you to say about that?

Mr. Cobb. I remember the articles and remember the scores and scores of letters of inquiry that came in to us on that subject. The reply that we made to all those letters was that the statements were

premature and exaggerated. They did not originate from my office and I did not know where they did originate. They were certainly

very wild statements.

The CHAIRMAN. So far as your experiments have proceeded to date on the cornstalks they show, as I understand it, first, that you get a by-product which you refer to as a stock food of problematic value—no one knows what it is worth; second, you get another by-product called "pithy pulp," or whatever it may be named, of problematic value—no one knows what it can be used for; and third, you get a fiber to the amount of about 250 pounds per ton, which would be 8 tons of cornstalk to a ton of fiber. Is that correct?

Mr. Cobb. That is approximately correct. I would use a little

more favorable-

The CHAIRMAN (interrupting). Optimistic.

Mr. Cobb (continuing). Term in regard to the two by-products. I do not say that anybody knows what their value is, but I would say that they undoubtedly have some value.

The CHAIRMAN. I say problematical; no one knows. You have

ascertained nothing?

Mr. Cobb. No, sir; we have not yet anything sufficiently definite. We have only recently, this week or last week, received the Bureau

of Chemistry's analysis of the stuff.

The CHAIRMAN. Wherever these statements emanated from, they were based upon a knowledge of having a ton of fiber to 8 tons of cornstalks and two additional products, which may be of some value, but the actual use of which no one can yet determine?

Mr. Cobb. Yes, sir. The first one of the statements that I think

you refer to appeared in the New York Sun, or that is the first one that my attention was called to. I think they were very specula-

tive and I do not think they were taken seriously.

The Chairman. Do you know, as a matter of fact, whether those statements were based upon any memorandum or information given out to the press by the Bureau of Plant Industry?

Mr. Cobb. I know that they did not originate from any memorandum or statement issued from the Bureau of Plant Industry.

The CHAIRMAN. Do you know whether the Forestry Bureau gave out any such statement?

Mr. Cobb. No, sir; I do not know anything positively about it. The CHAIRMAN. Have you never seen one of the statements?

Mr. Cobb. No. sir.

The CHAIRMAN. I would like to direct you attention to this thought, too. You have assumed that the economical thing to do was to make use of the waste in some of the annual crops which we now raise in order to make paper. The Bureau of Plant Industry ought to be able, if anybody can, through its knowledge of plants throughout the world, to possibly find some different kinds of annual or perennial plants which can be planted here for the purpose directly of making

Mr. Cobb. We have had that in mind, of course, and some things are going on that I presume you know of. We are making, through the plant introduction bureau, in charge of Mr. Fairchild, efforts to introduce bamboo and other plants and the experiments seem prom-

ising in that respect.

Mr. Sims. Bamboo does grow very rapidly?

Mr. Cobb. And it grows again after cutting.

The CHAIRMAN. I went through the greenhouses yesterday looking

at the bamboo.

Mr. Cobb. Naturally, that would be cultivated to a considerable extent along the waterways. We have one plant that now grows an immense tonnage, and that is hemp. It is worth while, in my opinion, to consider whether that plant might not be modified as you have suggested.

The CHAIRMAN. And also the sunflower.

Mr. Cobb. The sunflower gives an immense amount of pith and a small amount of fiber and requires a great deal more amelioration. It is more like this rubber twig that I showed you.

The CHAIRMAN. It has a much harder stalk than the corn?

Mr. Cobb. It is very hard on the outside. It is like the rubber

stalk that I showed you.

The CHAIRMAN. I am inclined to think myself that the chase after a by-product with which to make paper will not be successful. While they use in paper making now the by-products of the sawmills to a certain degree, slabs, edgings, and tops, and all that, yet the great bulk of the paper is not made in such a way as that, so far as wood paper is concerned.

Mr. Cobb. Of course the cost of going through with the motions of planting and harvesting, especially for a paper product, is going to make it exceedingly difficult to find a plant that you can sell in the end at a sufficiently low price per ton to make paper, and that cost is not going to decrease except as we can improve the machinery. There is no evedince that labor is going to become cheaper, or materials. If we can invent more ingenious machines, then, of course, there may be that possibility.

The CHAIRMAN. The machines in the pulp paper mills generally, while there has apparently been some progress, yet to a large extent. I think, the machines are very much the same as they have been for

vears.

Mr. Cobb. Yes, sir; that is quite true.

The CHAIRMAN. Whether that is because those machines were perfected years ago or whether it is because there has been very little attention given to efforts to improve them, I will not undertake to say. I am inclined to think the latter. The present method of mixing the pulp in the beating machine, I think, is as crude a thing as I have ever seen in a first-class mill of any kind, and yet it is all done alike in all the mills, apparently, with a little difference in capacity and some little difference in machinery.

What did you get out of your experiments with the tule grass? Mr. Cobb. We got a fiber. The proportion of pith is very much greater than it is in maize. The reason I had the tule grass tried was that I knew that it varied about as much from maize as we could expect to find any plant, and my idea was to see whether this process would also act where the proportion was different and the size of the fiber was different, not that we had any idea that it was a probable source of paper in any quantity.

The CHAIRMAN. What is rice straw used for now?

Mr. Cobb. For strawboard and certain qualities of wrapping paper. A little point came up in connection with that which is very interesting. Mr. Baker, of Hollingsworth & Vose Company, of Boston, was

talking with me on the subject of fiber for paper, and he showed me some fiber and wanted to know what it was. I said that it looked to me like rice straw, and he said that he did not think that could be. At any rate, I said that I would submit it to Mr. Dewey, who is with me in the Division of Agricultural Technology, to see what it was. Mr. Dewey said that it was rice straw. Before he knew what it was Mr. Baker was loath to believe that it was rice straw. he had been trying rice straw for a long time, off and on, and he could not use this for his paper. He makes certain grades of wrapping The point is that this was a different variety of rice. seemed to me to point strongly in the direction that you can not assume that rice is rice or corn is corn in this paper business; the different varieties vary very much, and there, I think, your idea of getting corn that has more fiber probably is a very good idea.

The Chairman. What do you know about the use of flax straw? Mr. Cobb. I know comparatively little about it from personal

experience.

The CHAIRMAN. They make some very hard paper of some sort

from flax straw?

Mr. Cobb. Yes, sir; there is no question about the quality of the paper. They produce a linen paper, more in the nature of writing paper and bond paper, rather than printing paper.

The CHAIRMAN. Do they not use it for insulating paper, or something

of that sort, in some places?
Mr. Cobb. I don't know much about that.

The CHAIRMAN. What kind of straw do they use ordinarily for the strawboard?

Mr. Cobb. Almost any of the cereal straws. The CHAIRMAN. I know; but what do they use?

Mr. Cobb. I think they use principally wheat straw. I do not think there is much choice among the various cereals. I think undoubtedly that rye straw has a strong fiber, but it also has a lot of mineral matter.

The CHAIRMAN. What straws are made into pulp by the soda

process?

Mr. Cobb. I think soda is the only thing that will reduce the straws where they contain a great deal of mineral matter.

The Chairman. Is that why the sulphite process will not reach

corn, for instance?

Mr. Cobb. I do not know that it will not.

The CHAIRMAN. Is the sulphite process used for any of these annual

plants?

Mr. Cobb. No, sir. I think it is up to us to make some experiments with the sulphite process on these plants being newly tried, but we have not gotten around to that yet. Of course, the action of the sulphite process is different from the soda process, but the fact that it will dissolve a certain substance in connection with wood leads to the conclusion that it may act also in connection with certain other plants, although it has not been tried.

The CHAIRMAN. What is the difference between the methods of this operation—between the sulphite and soda processes—the chem-

ical difference?

Mr. Cobb. In one case you use an acid and in the other case an alkaline solvent. The alkali is of course more vigorous. The acid solvent can be used to the best advantage with those plants whose elements separate easily. Plants vary a great deal in the way that their cells are cemented together. The contact is very intimate, and when every cell is hexagonal in cross section there is full contact with all the adjacent cells [exhibiting]. In one case they might all touch each other and in another case the tissue may be loose.

The Chairman. With loose tissues you use the sulphite process? Mr. Cobb. It would be better with that sort of plant. The alkaline process is more positive and acts on the cement that holds the cells together.

The CHAIRMAN. I would have supposed that the wood-fiber cells

might be more compact than they were in herbaceous plants?

Mr. Cobb. They have thicker cells and yet they have this peculiarity, that they are perforated at frequent intervals. It is not so very easy to explain that, but if you could see it under the microscope

it is very apparent.

The CHAIRMAN. The sulphite process is used with spruce and hemlock. There is hardly any other wood that is reduced by the sulphite process. They use the soda fiber process for the hard wood. They tell me that the liquid soda or alkali follows up along the length of the fiber, and if the chips are too long—they may not be too large around—but if too long the effect is not obtained.

Mr. Cobb. That is right.

The CHAIRMAN. Instead of going in at the side and leading out the fiber from the side, it goes in at the end of the fiber cells and follows up along in between the fiber, especially as to sulphite, and I think as to the soda fiber they cut the chips a little shorter than for the sulphite. I do not quite understand just why the acid should act on one kind of wood and the alkali be required to act upon the other. I

can understand why both might act upon any kind of wood.

Mr. Cobb. There are two reasons. One is the difference in the structure of the different woods and the other is the chemical composition of the wood. While we speak in general of this substance as cement, it is not always the same; it varies in different plants, just as you have one building put together with mortar and another with A similar cohesion is actually the case. With plants the cement substance between the cells in some cases is more soluble than it is in others, and it may be more soluble to one chemical and not more soluble to another. The two substances that we use are strongly opposed, one is acid and the other is alkaline, and it does not follow because the cement between the cells is more responsive to one that it is also more responsive to the other, and, as I say, the chemical composition of the cement has something to do with it. the openings of the tissue, of course the quicker and more freely the solvent can get at the tissue the better it can act. It is a fact that woods acted on by the sulphite are open in their tissues; that is to say, the cells, while they are intimate in their contact, are perforated in such a way that the solvent can get at the cement substance readily. Those are two of the main elements, the only ones I think of now, in fact, that would make the difference you mentioned.

The CHAIRMAN. The soda process is used generally with the hard woods, so called, and I take it from that the cellular tissue in those woods is more compact probably than it is in the spruce or hemlock,

or so-called soft woods?

Mr. Cobb. It is certainly different in character; there is no question about that.

The CHAIRMAN. That is easy to see, and the terms "hard" and "soft" woods would help to carry it out. That would seem to indicate that the cellular tissue in these annual plants reduced by the soda process is likely to be much more like the hard-wood cellular tissue than like the soft-wood cellular tissue. Perhaps that is the case with the rice straw, where the outer covering is extremely hard and close. Mr. Cobb. It is pretty difficult to reason from one set of plants to

The CHAIRMAN. I am not trying to reason from one set to another. I am trying to find out why you use the soda fiber on these annual

plants and the hard woods, and sulphite on the soft woods.

Mr. Cobb. I understand. I am not arguing that the sulphite process can not be used on any annual plant; I am only saying that I think it should be tried—that it is up to us to try it.

Mr. Sims. The acid process is cheaper?

Mr. Cobb. Yes, sir; it is cheaper.

The CHAIRMAN. Have you any more information to give us? Mr. Cobb. I have gone over most of the ground that I think I had

thought of covering. The Chairman. Do you think it is worth while to continue these

experiments?

Mr. Cobb. I think so. I have no hesitation in saying that. I can not at the present time see any place that I can point to a definite process that would be commercially valuable. I believe that the whole thing presents itself in such a light that experiments are not only desirable but imperative. No matter what is done, I can not see that the price of the present raw material of the bulk of paper that is printed on is going to decrease very much.

The CHAIRMAN. Would it be practicable for you in the Bureau of

Plant Industry to make experiments with plants and turn a sufficient quantity of plant material over to a mill to make real experi-

ments, if you could find mills which would accept?

Mr. Cobb. That is what we are trying to do at this moment. All the work we have done appears to me as merely a preliminary going over of the ground to make sure of what we ought to do. For that reason I have been very chary about giving out information to the press or anybody else about it. We have not really ascertained results; nothing more than guides for what we should do, and the greater part of that appropriation still has to be used.

(Thereupon the committee adjourned.)

SHAWANO, Wis., January 8, 1909.

Mr. Jas. R. Mann,

Chairman Select Committee on

Pulp and Paper Investigation, Washington, D. C.

DEAR SIR: We are in receipt of your esteemed favor of the 6th and note that you have received our corrected schedules for pulp and paper investigation.

Relative to the several cross sections or samples of wood which were taken from our ground-wood mill, would state that while we do not want to dispute the opinion of the Forestry Bureau, however, the samples which you mention as tamarack were samples of wood we term "swamp spruce." Tamarack we do not purchase nor do we use, unless possibly a shipper gets in a stick now and then, but we Therefore we believe that some one has have never noticed it. erred, as tamarack in our opinion can not be used.

Trusting that we have given you the desired information, we are.

Yours, very truly,

WOLF RIVER PAPER AND FIBER CO. D. F. Peck, Secretary.

LETTERS FROM DR. C. A. SCHENCK, FORESTER AT BILTMORE, N. C.

DECEMBER 23, 1908.

Hon. James R. Mann.

Chairman Committee on Pulp and Paper Investigation, House of Representatives, Washington, D. C.

DEAR MR. MANN: In response to your letter of the 21st, I have answered you to-day by wire as shown by the inclosed copy of my

telegram, which is confirmed herewith.

From your letter, I take it that a Select Committee on Pulp and Paper Investigation, headed by yourself, desires to make inquiries in the woods themselves into the present and future supply of pulp wood; that the committee has had under consideration the possibilities of reforestation, and the methods adopted for the protection of the second growth; that your committee contemplates a visit to western North Carolina during the week beginning Monday, December 28; that your committee desires to see the object lessons in reforestation exhibited on the Biltmore estate.

Confirming my telegram, I beg to assure you, dear Mr. Mann, that the gates of the Biltmore estate will be wide open to you and to your committee entirely at your bidding; that Mr. Vanderbilt's purpose in forming the Biltmore estate was that of giving an object lesson in practical forestry, and he will be delighted to know that his object lesson is being heeded by representative Americans.

Naturally, results in forestry can not be shown as quickly as they can be shown in agriculture or in manufacturing. A number of years must elapse before a seedling develops into a sapling and a sapling into a pole.

Forestry at Biltmore is twenty years old at the present writing, and forestry at Biltmore can show results which, in my opinion—I

am German—can not be duplicated in the Fatherland, even.

The Biltmore estate consists of 3,000 acres of planted forests. 40,000 acres of woodlands, wretched in 1888, which have been restored to productiveness under proper forestal care, and 90,000 acres of primeval forest, wherein forestry of an American type is being introduced gradually.

The forests are stocked with southern pine, spruce, balsam, hemlock, chestnut, oak, basswood, poplar, indeed, with any species that is used on a commercial scale in the manufacture of pulp and of

paper.

I am particularly anxious for your committee to see, not merely the forests intensively managed in the proximity of Biltmore, but also the forests of a more primeval character, where a second-growth forest, after heavy cutting, is being obtained by no means other than protection from forest fires.

It would be a sad condition of affairs for the United States if men of Mr. Vanderbilt's wealth alone could engage in the practice of

forestry.

Looking forward to your orders with reference to the proposed tour, I am, dear sir, your and your committee's

Very obedient servant.

C. A. SCHENCK.

JANUARY 2, 1909.

Hon. James R. Mann,

Chairman Committee on Pulp and Paper Investigation, House of Representatives, Washington, D. C.

DEAR MR. MANN: Your letter of the 28th has come to hand.

I am sorry to learn that your committee will not be able to come to North Carolina, so as to study at Biltmore the possibilities of reforestation, and at Canton the use of chestnut wood for paper manu-

As regards the reproduction of the forests, I would like to state that the rapidity of the development of second growth depends on the

climate and the soil entirely.

When all is said, it must be admitted that trees are the product of sunshine, and of moisture, and of heat. In a damp and warm climate,

and in moist soil, the growth is marvelously rapid.

Under forestry conditions, wherever the stands of trees are complete, we can count for a certainty on an average annual production of 1 cord of pulp wood per acre per year. On good soil the figure is higher, and on poor soil it is lower.

The size of the trees in our planted forests varies from plants 6 inches high to plants 14 inches in diameter.

We are planting, approximately, every year 100 acres, and we can show to you the various classes of forests planted between 1888

As regards the rapidity of production for pulp and paper purposes, I might say that thirty years from planting, or, in the case of chestnut, twenty years after coppicing, it will be worth while to obtain a second growth.

Twenty years after coppicing (in the case of chestnut) there will be at hand, approximately, on each acre of protected forest, productive of chestnut, 20 cords of chestnut.

Thirty years after planting there will be at hand 30 cords of spruce

to the acre.

I do not believe that in the year 1939 the owner of planted spruce woods will make a clean sweep of the plantation, such as he would make to-day. I believe it will be better policy at that time to remove part of the trees only, by way of thinning, and to adopt that scheme just now most remunerative in Germany.

The little booklet which I have sent to you, yclept "A forest fair in the Biltmore forest," will give you some information, and a number of pictures which may illustrate what I want to say better than

I can do it by writing a long letter.

It is obvious that in the reproduction of saw logs a longer period than twenty or thirty years must elapse after planting and after coppicing.

As I understand it, your committee is interested only in raw

material for the pulp and paper industry.

Saw logs, generally speaking, can not be reproduced in less than

eighty years.

Logs of sufficient diameter produced more rapidly are faulty, necessarily, by being fast-grown, which means tough of fiber, and by being branchy, which means full of holes and defects.

Species of light specific gravity (white pine and spruce) are grown much faster than species of heavy specific gravity (white oak, hickory.

maple, beech).

All of this I could illustrate to you more readily in an excursion through the woods of the Biltmore estate. After all, information relative to forestry, as you well know from your own experience in the northern woods, can not be obtained from books or from letters so well as it can be obtained from the woods.

I am sorry, indeed, that I shall not have a chance to show you the

object lessons of the Biltmore estate, for the time being.

From your letter I take it that your committee is confronted by the question, "Shall forest reproduction be done by the Government. or shall it be left to the efforts of private interests?"

In my opinion both agencies should be put into action, and that

without any delay.

Private individuals will practice forestry of a conservative nature just as soon as it will pay them so to do, or just as soon as they are sure of finding better dividends in forest conservation than in forest destruction.

The American forest owners belong to a class of men whom I would

call particularly clear-headed business men.

If these men have considered it unwise to practice conservative lumbering heretofore, we do not require any further proof of the fact that forest conservation is not as remunerative as forest destruction, up to the present time.

Whether forest conservation be done by the Government directly. or is obtained at the expense of the people otherwise, that is a questional state of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the people of the peo

tion of expediency merely.

Forestry will flourish as soon as the people are willing to foot the bill for (1) protection of the forest from fires, (2) reduction of the taxes encumbering a second growth, (3) high-priced lumber and high-priced cord wood.

I am, my dear Mr. Mann,

Your very obedient servant,

C. A. Schenck.

JANUARY 11, 1909.

Hon. James R. Mann,

House of Representatives, Washington, D. C.

My Dear Mr. Mann: Your letter of January 4 contains the following question: "Can spruce forests, under existing state laws, as to taxes and present fire protection, be profitably reproduced by private individuals or industrial corporations for use in business?" To this question I am obliged to reply by an emphatic "no."

Reproduction can be profitable only when it is safe. ter now stands, the danger from fire under present state laws is so considerable as to make investments in second-growth spruce partic-

ularly risky.

A risky investment must promise very high returns to find favor with the investor. Dividends of 10 or 20 per cent can not be expected, in my humble opinion, from forestal investments under any circumstances, and a dividend of from 4 to 8 per cent is out of keeping with the risk taken by the man investing his dollars and cents in secondgrowth spruce forests.

The influence of taxation as an expense in forestry is such as to

discourage the investor in second growth.

Financially a tax of 4 cents per acre is not so bad, provided that the price of spruce stumpage is as high in 1930 in this country as it is to-day in the old. In the German Black Forest and in the Bayarian Forest the price of spruce stumpage as used at the pulp mills is approximately \$12 a cord.

You can imagine that the woods in question, producing per acreper annum a cord of spruce wood, can readily stand an annual tax of as

much as 20 cents to the acre.

The investment in second growth, or, rather, the investment by which a second growth may be produced, be it by planting or be it . from self-sown seed, is approximately, in my opinion, the sum of \$10 or \$12 an acre. By this investment can be secured a complete and dense second growth, growing at the rate of 1 cord per annum, without fail, barring fires.

If the price of stumpage remains as low as it is to-day, it will not be profitable to secure a second growth when removing the first growth; if the price of second growth runs up in the next thirty years to \$10 a cord, then, and in that case, the prospects for American forestry are good, barring fires.

It is quite true that the problem of forest fires is identical with the

problem of American forestry.

The existing state laws are entirely insufficient to warrant the safety of sylvicultural investments. The owners of cut-over woodlands show little interest in legislation safeguarding second growth, because stumpage values are low in this country and the certainty has not yet dawned upon the minds of most lumbermen or owners of cut-over lands that the prices of stumpage in days to come must run as high in this country as they are now running in Germany or France.

If Congress prevents by suitable custom duties the importation of wood and lumber from the outside, the possibility of increased stumpage values will present itself to the owners of cut-over woodlands; such owners will be eager to have their woodlands protected from fires, and will be more eager than they are now to invest a few dollars per acre for the production of second growth.

Here at Biltmore, in the planted forests we have been fairly safe from forest fires so far. I am quite sure, however, that this condition

will not continue.

The natural second growth obtained in primeval woods safe from fires has suffered badly, here as well as elsewhere, and many an excellent second growth of chestnut and poplar raised by me during the last fifteen years has been utterly destroyed, with little chance for another second growth left, because of forest fires.

The profitable reproduction of stumpage depends, naturally, on

stumpage prices.

As long as stumpage can be imported into New York from Canada as cheaply as it can be transferred from Wisconsin, and cheaper than it can be transferred from the southern Appalachian region into New York, the chances for profit obtainable from sylvic investments

Canada will be able, I should judge, to supply us for a number of years with spruce—say for thirty years. After a lapse of thirty years the Canadian spruce woods and our own spruce woods will be exhausted, and there will be presented a condition of affairs as deplorable as that which now confronts Italy and Spain with reference to the forests.

To me it seems that the question of cheap paper is less important to the American commonwealth than the problem of expensive

stumpage.

If stumpage is cheap, no one can afford to produce it, neither here nor in Germany. If we want forestry we, as a people, through Con-

gress, have to see to it that forestry is a good investment.

It will be a good investment if Congress enacts proper laws tending to secure for the owner of second growth protection by a federal forest police (the federal marshal and his deputies can act as such police, and no new organization is required).

As regards the cheapness of paper, I, for one, am in favor of expensive printing paper, particularly for the reason that 90 per cent of the papers contain "stuff" that is not fit to print.

Many an advertisement covering a whole page contains reading matter of six lines only; many a page is devoted to descriptions of murders and other obnoxious matter which can not be considered of educational value, and it should be cut down, by all means.

If printing paper is more expensive, education by the newspapers

will be fostered rather than checked.

Unless Congress takes a firm stand and makes private forestry remunerative, there will be no private forestry; there will be 500,000,000 acres of barren lands, formerly productive of forests. within fifty years.

Have your choice.

Have cheap paper for another thirty years, and after that time very expensive paper, and vast areas of unproductive land.

Yours for high prices of paper, pulp, and spruce, and with deep

respect,

C. A. SCHENCK.

### INFORMATION CONCERNING PULP AND PAPER MANUFACTURING INDUS-TRY IN UNITED STATES.

The Chairman. Referring to the following letter and tables compiled by the Census Office, which we will publish now for information, I will say that many new schedules have been received since this tabulation, and new and more complete tables are being prepared by experts under the direction of the committee.

The information in the schedules is received in confidence, and no

facts relating to any particular mill will be disclosed in any way.

DEPARTMENT OF COMMERCE AND LABOR. BUREAU OF THE CENSUS, Washington, December 1, 1908.

Hon. James R. Mann. Chairman Select Committee on Pulp and Paper Investigation, House of Representatives, Washington, D. C.

SIR: I respectfully transmit herewith tabulations made in this bureau of the replies to the schedule inquiries addressed by your com-

mittee to manufacturers of pulp and paper.

About 900 schedules relative to the manufacture of pulp and paper were mailed, and approximately 450 replies were received, but only 188 of these, covering the operations of 235 plants, have been tabulated in the tables presented herewith. A considerable number of the schedules of the paper manufacturers were thrown out because their operations did not fall within the scope of the investigation. Especially is this true of those returning as raw materials rags, old paper, straw, hemp, cotton waste, and the like.

It is thus seen that the results obtained by the committee are incomplete and not comparable with census statistics. To illustrate the impracticability of comparing the statistics of these tables with those of the census, it may be stated that the capital returned by the establishments represented in the tabulations herewith amounts to \$147,757,670, whereas the total capital invested in the manufacture of paper and wood pulp during the calendar year 1904, as shown by the census figures, was \$277,444,471. The total cost of materials returned by the establishments represented in the tabulations made from the returns to the committee is \$49,183,106, compared with \$111,251,478 for the entire industry as returned at the census of 1905. The value of products returned by the establishments represented in the tabulations herewith is \$82,716,044, compared with \$188,715,189 for the entire industry as shown at the 1905 census. In addition to this there has doubtless been an increase during the last three years in the number of establishments engaged in this manufacture, and hence it is impracticable to state how nearly the present condition of the entire industry is revealed by these imperfect statistics.

Table 1.—Number of establishments returned; capital invested; salaried employees

and wage-earners; and rent and taxes; by States, 1907.

Table 2.—Number of establishments returned; cost of materials used, according to kind, quantity, and value; by States, 1907.

Table 3—Number of establishments returned, and quantity and value of manu-

factured products; by States, 1907. Table 4.—Cost of manufacturing product; percentage represented by wages, by

materials, and by all other expenses of production; 1907. Table 5.—Comparative monthly average selling prices per ton of news-print paper;

by States, 1906 and 1907. Table 6.—Comparative monthly average selling prices per ton of several kinds of

paper; by States, 1906 and 1907.

Table 7.—Number of plants reported; yearly capacity of the mills for the manufacture of paper and pulp; and the average number of days operated in 1907.

Hoping that the material transmitted may prove of service, I am, Respectfully,

S. N. D. North, Director.

Table 1.—Number of establishments returned, capital invested, salaried employees and wage-earners, rents, and taxes, by States, 1907.

	Num- ber		Salaried employees.					Vagesearner:	s.	_
State.	of estab- lish ments.	(amc	pital bunt).	Num- ber.	Salaries.	Aver- age salary.	Num- ber.	Wages.	Aver- age wage.	Rent, taxes. etc.
Total	188	\$147,7	757,670	1,413	\$2,757,849	\$1,952	26, 409	\$13, 567, 620	\$514	 \$7,680,77
Connecticut	6		330, 627	22	33, 378	1,517	238			69,06
Illinois		' 7	724, 075	19	18,677	983				3r.3n
Indiana	<b>'</b> 3	1,3	<b>392, 9</b> 70	18	21,909	1,217	172			77,46
<b>Mai</b> ne	5		)12, 144							190.20
Massachusetts			<b>)5</b> 1, 198		819,617					1,842.13
Michigan	14		148, 272		238, 453					754. %
Minnesota New Hampshire	3		365, 034		32,393		407			153.19
New Hampshire	4		986, 853		26,248					
New Jersey	, 8		794, 814		126, 172					147.39
New York			278, 774		658,076			3, 493, 208		
Ohio	9		196, 770		39,460					
Pennsylvania Vermont	20		993, 710		248, 821				503	
Vermont	10		162,609		<b>55,</b> 866					经所
Virginia	3 3		556,982		32, 798					
West Virginia	3		216, 382		14,450					
Wisconsin	23		488,001		260,346		2,815			
All other States a	7	2,2	258 <b>, 45</b> 8	35	59, 442	1,698	392	218, 228	557	138.75

a Includes Maryland, with two establishments; Delaware, Missouri, North Carolina, South Carolina, and Washington, with one establishment each.

Table 2.—Number of establishments returned, cost of materials used, expressed by kind, quantity, and value, by States, 1907.

'	Num-	Cost of materials used during the year.										
	Num- ber of estab-	Wo	ood for pulp	Gro	Ground-wood fiber.							
	lish- ments.	Cords.	Value.	Average price (per cord).	Tons.	Value.	Average price (per ton).					
Total	188	1,021,383	\$7,969,012	\$7.80	111,497	\$2,378,011	\$21.33					
Connecticut	6 .				4,518	79,065	17 50					
Illinois Indiana	4.	200	1,500	7.50	1,248	29, 941	23.11					
Maine	5	85,020	512, 256	6.03	7,854	137, 300						
Massachusetts	21	22, 222	166, 276		10,130	214,099						
Michigan	14	99, 441	578, 555		11,572	269, 247						
Minnesota	ŝ	29, 601	245, 353		1,872	44,505						
New Hampshire	ă	1,173	4, 861	4.14	641	14,566						
New Jersey	8.				421	13,044						
New York	45	484,705	3,939,492	8.13	22, 224	454, 868	20. 47					
Ohio	9 .				1,300	31,150	23.9					
Pennsylvania	20	91.049	757, 817	8.32	619	15,320						
Vermont	10	15,043	143, 836	9.56	6, 248	126, 506	20 27					
West Virginia	3		· · · · · · · · · · · · · · ·									
Wisconsin	23	173.244	1,513,278	8. 73	32,090	714.587	22.27					
All other States	20	19,685	105,788		10,760	233, 813						

a Includes Maryland, with two establishments; Delaware, Missouri, North Carolina, South Carolina, and Washington, with one establishment each.

TABLE 2.—Number of establishments returned, cost of materials used, expressed by kind, quantity, and value, by States, 1907—Continued.

			Cost	of ma	terials us	ed durin	g the year.	
	Num- ber of estab- lish-	!	Sulphi	te.		   	Soda.	
	ments.	Tons.	Valu	6.	Average price (per ton)	Tons.	Value.	A verage price (per ton)
Total	188	180, 36	7   \$8,542,	.565	\$47. 36	49,8	\$2,159,010	843. 3
Connecticut	6	1,41	5   60.	620	42.84		2,870	3 44.9
Ilinois	4	. 4	R . 1.	869	40.63			
ndiana	3	1,71	1 80,	926	47. 29		•••	· • • • • • · · • •
Laine Lassachusetts	5 21	73	8   25, 6 3,488,	508	34. 56 53. 22	29,86	3 1,288,634	43. 1
Lichigan		65,54 15,05		053	40.97	8,87	5 381,24	42.9
Minnesota		4,82	230,	205	47. 70		001,21	
New Hampshire	4	3,30			45.81	3,77	0 162, 186	3 43. (
New Jersey		500	2 22,	277	44. 38			
New York	45	29,99	7 1,221,	606	40. 72	40	5 18,348	45.3
Ohio	.9	4,07	178,		43. 81	13		46.9
Pennsylvania Vermont	20 10	6, <b>49</b> 6, 13	2 317, 3 247,		48. 91 40. 35	3,89	3 171,687 6 1,124	
Virginia	3	13	6	435	46. 29			
West Virginia	3	7	n i 2.	842	40. 60	1		
Wisconsin	23	37,05		936	46. 90	1,80		
All other States a	7	3,25	7   152,	135	46. 71	8	8 4,929	56.0
	Num- ber of estab- lish- ments.		All other.	Ave	erage ( ice ton).	Fuel value).	Other ma- terials (value).	Total cost (amount).
	! <b>-</b> — -	·		1				<b>\$49, 183</b> , 10
Total	188	31,489	\$719,856	\$	22.86   \$5	, 400, 935	<b>\$22,013,711</b>	
		31,489	\$719,856	\$:	22.86 85			404 01
Sonnecticut	6	31,489	\$719,856	\$	22.86 \$5	59, 164	204, 487	
Connecticut		31, 489	\$719,856	\$	22.86 \$5	59, 164 34, 767	204, 487 235, 986 213, 566	272, 62
Connecticut Illinois Indiana Maine	6 4 3 5					59, 164 34, 767 43, 924 222, 612	204, 487 235, 986 213, 566	272, 62 369, 85
Connecticut	6 4 3 5 21	299	17,308		57.89 1	59, 164 34, 767 43, 924 222, 612 , 159, 389	204, 487 235, 986 213, 566 382, 972 7, 983, 990	272, 62 369, 85 1, 280, 64 14, 318, 01
Connecticut Illinois Indiana faine fassachusetts fichigan	6 4 3 5 21					59, 164 34, 767 43, 924 222, 612 , 159, 389 656, 828	204, 487 235, 986 213, 566 382, 972 7, 983, 990 1, 564, 555	272, 62 369, 85 1, 280, 64 14, 318, 01 4, 583, 42
Connecticut Illinois Indiana Maine Massachusetts Michigan Minnesota	6 4 3 5 21 14	299	17,308		57.89 1	59,164 34,767 43,924 222,612 ,159,389 656,828 61,769	204, 487 235, 986 213, 566 382, 972 7, 983, 990 1, 564, 555 106, 388	272, 62 369, 85 1, 280, 64 14, 318, 01 4, 583, 42 688, 22
Connecticut	6 4 3 5 21 14 3 4	299 23,333	17,308 516,041		57.89 1	59,164 34,767 43,924 222,612 ,159,389 656,828 61,769 44,030	204, 487 235, 986 213, 566 382, 972 7, 983, 990 1, 564, 555 106, 388 203, 412	272, 62 369, 85 1, 280, 64 14, 318, 01 4, 583, 42 688, 22 580, 32
Connecticut	6 4 3 5 21 14 3 4 8	299 23,333	17,308 516,041 44,850		57.89 122.12 39.00	59,164 34,767 43,924 222,612 ,159,389 656,828 61,769 44,030 125,668	204, 487 235, 986 213, 566 382, 972 7, 983, 990 1, 564, 555 106, 388 203, 412 756, 163	272, 62 369, 85 1, 280, 64 14, 318, 01 4, 583, 42 688, 22 580, 32 962, 00
Connecticut Illinois Indiana Maine Massachusetts Michigan Minnesota Mew Hampshire New Jarsey New York Dhio	6 4 3 5 21 14 3 4 8 45 9	299 23,333	17,308 516,041 44,850 62,231		57.89 1 22.12 1 39.00 16.34 1	59, 164 34, 767 43, 924 222, 612 , 159, 389 656, 828 61, 769 44, 030 125, 668 , 491, 456	204, 487 235, 986 213, 566 382, 972 7, 983, 990 1, 564, 555 106, 388 203, 412 756, 163	272, 62 369, 85 1, 280, 64 14, 318, 01 4, 583, 42 688, 22 580, 32 962, 00 11, 750, 11
Connecticut Illinois Indiana Maine Massachusetts Michigan Minnesota New Hampshire New Jersey New York Dhio Pennsylvania	6 4 3 5 21 14 3 4 8 45 9	299 23,333	17,308 516,041 44,850		57.89 122.12 39.00	59,164 34,767 43,924 222,612 ,159,389 656,828 61,769 44,030 125,668	204, 487 235, 986 213, 566 382, 972 7, 983, 990 1, 564, 555 106, 388 203, 412 756, 163 4, 562, 110 712, 793 2, 686, 684	272, 62 369, 85 1, 280, 64 14, 318, 01 4, 583, 42 688, 22 580, 32 962, 00 11, 750, 11 1, 031, 22
Connecticut Illinois Indiana Maine Massachusetts Michigan Minnesota New Hampshire New Jersey New York Dhio Pennsylvania Jermont	6 4 3 5 21 14 3 4 8 45 9	299 23, 333 1, 150 3, 808	17,308 516,041 44,850 62,231		57.89 1 22.12 1 39.00 16.34 1	59, 164 34, 767 43, 924 222, 612 , 159, 389 656, 828 61, 769 44, 030 125, 668 , 491, 456 102, 411 579, 560 38, 246	204, 487 235, 986 213, 566 382, 972 7, 983, 990 1, 564, 555 106, 388 203, 412 756, 163 4, 562, 110 712, 793 2, 686, 084 106, 758	406, 21 272, 62 369, 85 1, 280, 64 14, 583, 42 4, 583, 42 580, 32 962, 00 11, 750, 11 1, 031, 22 4, 558, 19 663, 95
Connecticut Illinois Indiana Maine Massachusetts Michigan Missachusetts Minesota Vew Hampshire New Jersey New York Dhio Pennsylvania Permot Jirginia	6 4 3 5 21 14 3 4 8 45 9 20 10 3	299 23, 333 1, 150 3, 808	17,308 516,041 44,850 62,231		57.89 1 22.12 1 39.00 16.34 1	59, 164 34, 767 43, 924 222, 612 , 159, 389 656, 828 61, 769 44, 030 125, 668 , 491, 456 102, 411 579, 560 38, 246 11, 400	204, 487 235, 986 213, 566 382, 972 7, 983, 990 1, 564, 555 106, 388 203, 412 756, 163 4, 562, 110 712, 793 2, 686, 084 106, 758 158, 466	272, 62 369, 85 12, 80, 64 14, 318, 01 4, 583, 42 688, 22 580, 32 962, 00 11, 750, 11 1, 031, 22 4, 558, 19 603, 95 215, 83
Connecticut Illinois Indiana Maine Assachusetts Michigan Minnesota New Hampshire New Hampshire New York Nhio Pennsylvania Vermont Virginia West Virginia	6 4 3 5 21 14 3 4 8 45 9 20 10 3 3	299 23, 333 1, 150 3, 808 657	17, 308 516, 041 44, 850 62, 231 30, 215		37.89 1 22.12 39.00 16.34 1	59, 164 34, 767 43, 924 222, 612 , 159, 389 656, 828 61, 769 44, 030 125, 668 , 491, 456 102, 411 579, 560 38, 246 11, 400 30, 934	204, 487 235, 986 213, 566 382, 972 7, 983, 990 1, 564, 555 106, 388 203, 412 756, 163 4, 582, 110 712, 793 2, 686, 084 106, 758 185, 466 303, 758	272, 62 369, 85 1, 280, 64 14, 318, 01 4, 583, 42 688, 22 580, 32 962, 00 11, 750, 11 1, 031, 22 4, 558, 19 603, 95 215, 53 327, 53
Connecticut Illinois Indiana Maine Massachusetts Michigan Minnesota New Hampshire New Jersey New York Ohio Pennsylvania Vermont	6 4 3 5 21 14 3 4 8 45 9 20 10 3	299 23, 333 1, 150 3, 808	17,308 516,041 44,850 62,231		57.89 1 22.12 1 39.00 16.34 1	59, 164 34, 767 43, 924 222, 612 , 159, 389 656, 828 61, 769 44, 030 125, 668 , 491, 456 102, 411 579, 560 38, 246 11, 400	204, 487 235, 986 213, 566 382, 972 7, 983, 990 1, 564, 555 106, 388 203, 412 756, 163 4, 562, 110 712, 793 2, 686, 084 106, 758 158, 466	272 369 1,280 14,318 4,583 688 580 962 11,750 1,031 4,558 663 215

a Includes Maryland, with two establishments; Delaware, Missouri, North Carolina, South Carolina, and Washington, with one establishment each.

Table 3.—Number of establishments returned, quantity and value of manufactured products, by States, 1907.

		•			Qua	antity	and v	alue	of ma	nulac	tured p	roducts.
								Nev	vs pa	per.		
				Num- ber of estab- lish-	L	In re	olis.		- ₁	-	In she	ets.
				ments.	Tons.	Val	ue.	Aver age price (per ton)	T . e	ons.	Value	Average price (per ton).
 Total			- -	188	126,970	\$5,300	0, 508	\$41.	75	53, 550	\$2,271,0	019 \$42
Connecticut Illinois			[	6	_, _,	5 84	5, 877	42.	20			
Indiana		<i></i>		3							1	• • • • • • • • • • • • • • • • • • •
Massachusetts Michigan			;	21	13,800	.			io			• • • • • • • • • • • • • • • • • • • •
Minnesota		<b></b>		3	22,608	95	8,862 5,581	42.	27,	4, 113	199,	41 48.
New Hampshire New Jersey		<b></b>		Š	3		7,919			789	1	
New York Ohio				45	)'	1,57				. <b></b>	1,254,	
Pennsylvaina Vermont		<b></b>		20 10		4	3,867	5 <b>3</b> .		465		577 55.0
Virginia				9	3	1			!		'	
west Virginia				3	<b></b>						1	· • · · · · · · · · · · · · · · · · · ·
West Virginia Wisconsin All other States a			::::::  <u>!</u>		<b></b>	7 1,334 9 599	5, 826 9, 383	40. 47.	09 50	6, 482	749,	313 45
west virginia Wisconsin	Num-		Quan	23 7 	33,317 12,619 1 value o	599	ufact	47. ured p	orođu		749,	<del></del> -
w est Virginia			Quan	tity and arieties er.	33,317 12,619 d value of	of man	ufact	47.	orođu	cts.	749,	Total value, amount.
West Virginia	Number of establishments	All c	Quantother vs pape	tity and arieties er.	3 33, 317 12, 619 d value of of ver- age orice (per on).	of man Pulp Fons.	ufact and i	47.	orodu  Average price (per ton)	cts.	li other oducts, value.	Total value,
West Virginia Wisconsin All other States a  Total  Connecticut	Number of establishments	All c	Quantother vs paper	23 7 tity and arieties er. 1,978 4,978	33, 317 12, 619 d value of of ver- age orice 1 (per on).	Pulp Fons.	9,383 ufact and i	47. ured p fiber s ue.	orodu old. Average price (per ton)	cts.	li other oducts, value.	Total value, amount.
West Virginia Wisconsin All other States a  Total  Connecticut Indiana	Number of establishments  188	All c	Quanti other vs pape Valu \$66, 311 586 533	3 23 7 tity and arieties er.	3 33,317 12.616 1 value of of ver- age orice 7 (per on).	of man Pulp Cons.	9,383	47. ured p	orodu  Average price (per ton)	A A A 31,	li other oducts, value.	Total value, amount.
West Virginia Wisconsin All other States a  Total  Connecticut Illinois Indiana Maine Massachusetts	Number of establishments	All c Tons. 870, 900 14, 561 18, 349 24, 940 208, 034	Quant other vs pape Valu \$66, 311 586 653 1, 160 23, 617	3 23 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 33,317 12,618 1 value of of ver- age orice 1 (per on). 576.14 2 40.54 40.54 40.54 46.53 113.53	of man Pulp Cons.	val	47. ured 1	Average price (per ton)	A 43 \$1,	853,001 96,495	Total value, amount.  \$\$2,716,00 672,00 476,93 2,338,5 2,338,52
West Virginia Wisconsin All other States a  Total  Connecticut Illinois Indiana Maine Massachusetts Michigan Minnesota	Number of setablishments  188  64 35 51 21 14 33	Tons.  870, 900 14, 461 18, 349 24, 940 208, 034 107, 420	Quantity Value   \$66, 311   \$66, 311   \$63   1, 160   23, 617   6, 974	3 23 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 33,317 12,619 1 value of of ver- age orice 1 (per on). 876.14 2 40.54 28.13 35.61 35.61 46.53 113.53 64.93	of man Pulp Cons.	Val	47. ured p	orodu  Average price (per ton)	A A 81,	ll other oducts, value.	Total value, amount.  \$22,716,00 672,00 476,92 2,238,32 2,238,20,00 7,928,661,1236,41
West Virginia Wisconsin All other States a  Total  Connecticut Illinois Indiana Maine Massachusetts Michigan Minnesota New Hampshire New Jersey	Number of setablishments  188  6 4 3 5 21 14 3 4	All c 870, 900 14, 461 18, 349 24, 940 208, 034 107, 420	Quanti Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value	3 23 77	3 33,317 12,619 1 value of of ver- age orice 1 (per on). 876.14 2 40.54 35.61 46.53 35.61 46.53 35.61 98.02 98.95	Pulp  Cons.  28, 638 6, 8511 3, 925	9,383  ufact: and i  Val  \$6,975	47. 47. 47. 47. 47. 47. 47. 47. 47. 47.	orodu  Average price (per ton)  \$34.	cts. Alpre 43 \$1,	853,001 96,495,71,761	Total value, amount.  882, 716, 0  672, 0  476, 99  62, 233, 32  2, 233, 620, 0  7, 928, 64  1, 825, 64  1, 825, 64
West Virginia Wisconsin All other States a  Total  Connecticut Illinois Indiana Maine Massachusetts Michigan Minnesota New Hampshire New Jersey New York Ohio	Number of establishments  188  64 33 55 21 144 34 95	Tons.  870, 900 14, 461 14, 561 18, 349 24, 940 208, 034 107, 420 7, 354 6, 450 202, 987 26, 467	Quanti pape Value \$66, 311 \$66, 311 586 23, 617 6, 974 13, 481 1, 520 13, 481	3 23 23 23 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24	3 33, 317 12, 618 1 value of of ver- age orice 1 (per onn). 36, 61 36, 63 113, 53 64, 93 98, 02 89, 95 66, 42 98, 95 66, 42	Pulp Pulp Pulp Pulp Pulp Pulp Pulp Pulp	9,383  ufact:  ufact:  Val  Val  1,077  8  3,76	47. ured 1 liber s ue.  3, 190 1, 719	orodu Average price (per ton) 37. 39.	cts. A pr 43 \$1,	853,001 96,495 2,213,71,761 245,296 133,859	Total value, amount.  522,716,00  672,00  672,00  672,00  673,32  2,338,23  2,338,24  1,236,44  1,820,47  1,231,01  1,530,84
West Virginia Wisconsin All other States a  Total  Connecticut Illinois Indiana Maine Massachusetts Michigan Minnesota New Hampshire New Jersey New York	Number of establishments  188  6 4 3 3 5 1 11 3 4 9 9 20 10	7, 354 6, 450 202, 987 202, 987 208, 034 107, 420 7, 354 6, 450 202, 987 202, 987 202, 987	Quant Dether vs pape Value \$66, 311 586 380 1, 160 23, 617 720 7, 500 7, 500 7, 788	3 23 23 23 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24	3 33, 317 12, 616 1 value of of value of of value of of value of of value of of value of of value of of value of of value of of value of of value of of value of of value of value of of value of value of of value of value of of value of value of value of of value of value of value of value of value of of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of value of valu	Pulp  Cons.  28, 638 6, 8511 3, 925	9,383  ufact  and 1  Val  \$6,977  1,073  3,76'  22:	47. 47. 47. 47. 47. 47. 47. 47. 47. 47.	orodu  Average price (per ton)  \$34.	A3 \$1,	853,001 96,495 71,761 245,296	Total value, amount.  \$\$2,716,0  672,0 476,99 623,620,00 7,928,60 1,236,44 2,238,23 1,520,10 1,530,88 8,077,04
West Virginia Wisconsin All other States a  Total  Connecticut Illinois Indiana Maine Massachusetts Michigan Minnesota New Hampshire New Jersey New York Ohio Pennsylvania	Num-ber of setablishments  188  6 4 3 5 21 14 9 45 9 20 10	7, 354 6, 450 202, 987 202, 987 208, 034 107, 420 7, 354 6, 450 202, 987 202, 987 202, 987	Quantitative value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value value	3 23 23 23 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24	3 33, 317 12, 618 1 value of 1 va	Pulp Pulp Pulp Pulp Pulp Pulp Pulp Pulp	9,383  ufact  and 1  Val  \$6,977  1,077  27:  3,76  22: 26:	47.  18 ber s  19 3, 538  19 3, 280  1, 719  7, 637  2, 051  2, 995	orodu Average price (per ton) \$34.	A 31, 43 31, 43 31, 44 43 44 44 44 44 44 44 44 44 44 44 44 4	853,001 96,495 2,213,71,761 245,296 133,859	Total value, amount.  \$82,716,04 672,06,476,92 2,238,32 2,238,520,07,928,66 1,236,46 1,820,47 1,820,47 1,850,88 8,077,08

^{a Includes Maryland with two establishments; Delaware, Missouri, North Carolina, South Carolina, and Washington with one establishment each.} 

TABLE 4.—Total cost of manufacturing paper and pulp, per cent of total cost represented by wages, materials, and other expenses.

			C	ost of 1	production re	present	ted by—	
State.	Estab- lish- ments reported	Total cost of manufac- turing	Wages		Material	ls.	All other exp	penses
	(number).	(amount).	Amount.	Per cent.	Amount.	Per cent.	Amount.	Per cent.
Total	188	<b>\$73, 200, 44</b> 6	\$13,567,620	18. 5	\$49, 183, 106	67. 2	\$10,449,720	14. 8
Connecticut		642,679	134,025	20.9	406, 212	63. 2	102, 442	15.9
Illinois		417, 165	89,500	21. 5	272,622	65. 3	55,043	13.2
Indiana		560,994	90,639	16.2	369,857	65.9	100, 498	17.8
Maine	5	1,965,858	417, 264	21.2	1,280,648	65. 2	267,946	13.6
Massachusetts		21,024,729	4,019,519	19. 1	14, 318, 018	68. 1	2,687,192	12.8
Michigan	14	6, 872, 690	1,290,002	18.7	4, 583, 424	66.7	999, 264	14.6
Minnesota	3	1, 114, 436	240,625	21.6	688, 220	61.7	185, 591	16.7
New Hampshire	8	757,179	105,828	14.0	580, 325	76.6	71,026	9.4
New Jerscy New York	45	1,543,310 18,173,526	307,744	20.0 19.2	962,002	62.3 64.7	273, 564	17. 7 16. 1
Ohio	9	1,390,902	3, 493, 208 218, 184	15.6	11,750,111 1,031,224	74.2	2,930,207 141,494	10. 2
Pennsylvania		7,002,443	1, 289, 531	18. 4	4, 558, 195	65. 1	1,154,717	16. 8
Vermont	10	905 411	133,520	14.8	663, 952	73.3	107,939	11.6
Virginia	3	391,421	61,225	15.7	215,838	55.1	114,358	29.2
West Virginia	3	453, 290	62,797	13.9	337,534	74.4	52,959	11.7
Wisconsin	23	8,643,675	1,395,781	16.1	6, 240, 593	72.2	1,007,301	11.7
All other States a	7	1,340,738	218, 228	16.3	924, 331	68.9	198,179	14.8

a Includes Maryland with two establishments; Delaware, Missouri, North Carolina, South Carolina, and Washington with one establishment each على المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة المقادمة ال

Table 5.—Comparative monthly average selling prices, per ton, of news-print paper, by States, 1906 and 1907.

State.	Year.		_	_	Av	erage	prices	per ton	(2 000	pound	ls)—		
ousue.	I Can.	Jan.	Feb.	Mar.	Apr.	Мау.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Connecticut	1907 1906	\$44.00	\$44. 00 40. 00	\$44.00	\$44.00	\$44.00	\$44.00	\$44.00	\$44. 00 40. 00	\$44. 00	**************************************	\$44.00	
Michigan	1907 1906	37. 79 35. 11	36. 95		35. 66	37. 22	39. 44		41.03	41.73	42. 53	43. 31	42. 5
Minnesota	1907 1906	37. 15 36. 90	37.00	37.40		37.60	39. 20	39. 29		41.60	42. 10	43.50	44. 40
New Hampshire	1907 1906	65. 76 58. 36	61.30		60.00	61.30	61.80	59.60	59.90	59.60	61.12	60.00	59.3
New York	1907 1906	38. 88 35. 61	40.73	41.46	42.46	43. 45	43. 54	43.57	43. 75		45. 31	44.85	45. 0
Pennsylvania	1907 1906	52.00 52.00	52.00	52.00 52.00	54.00	54.00	54.00	55.00	55.00	56. 00 52. 00	56.00	56.00	56.00
Wisconsin	1907 1906	47.92	49. 51	49. 42 48. 08	51.03	51.27	51. 51	51. 29	52. 52	53.55	53. 81	53. 52	53. 9

The statistics shown in the table were computed from reports of establishments which produced in 1907, 126,970 tons of news print, in rolls, valued at \$5,300,508, or an average of \$41.75 per ton, and 53,550 tons in sheets, valued at \$2,271,019, or an average of \$42.41 per ton. Computed on the combined figures the average price is \$41.94. According to the census there were produced in the calendar year 1904, 840,802 tons, in rolls, valued at \$32,763,308, or an average of \$38.97 per ton, and 72,020 tons in sheet, valued at \$3,143.152, or an average of \$43.64 per ton. It thus appears that the quantity of news print represented in Table 5 for 1907 is 180,520 tons, or about 20 per cent of the products reported for the census of 1905. The average price per ton of the averages, as returned by the manufacturers for the month of January, 1907, is \$46.21, compared with \$49.33 for December of the same year. The comparative prices for 1906 are \$43.59 for January and \$44.85 for December.

wages and the increases in the various occupations; and to get anything that would be an average of increase over a period of years is going to be extremely difficult, for the reason that the number of men employed varies from month to month, and to get figures that would be absolutely accurate would take a great deal of time.

The Chairman. The fact is, it is not so important now, in that respect, as when we commenced this investigation, because then there had been a considerable increase in the price of news-print paper, and at that time the question had been raised as to whether the increase was due to natural or artificial causes. It has now been developed, I think, that the increase in the price of news-print paper has been coincident with the increase in cost of production. But now we want to get at the question as to the wage cost in this country and in other countries, especially as relating to the tariff question.

(Adjourned at 1 p. m.)

COMMITTEE ON PAPER AND PULP INVESTIGATION, Wednesday, December 30, 1908.

EXPERIMENTS WITH CORNSTALKS, ETC.—continued.

STATEMENT OF MR. NATHAN A. COBB, IN CHARGE OF CROP TECHNOLOGY AND FIBER INVESTIGATIONS, DEPARTMENT OF AGRICULTURE.

The Chairman. Doctor, will you give the stenographer your full name?

Mr. Cobb. Nathan A. Cobb.

The CHAIRMAN. What is your position?

Mr. Cobb. Agricultural technologist in the Department of Agriculture at Washington.

The CHAIRMAN. Recently what work have you been specially en-

gaged upon?

Mr. Cobb. I have only recently come to the Agricultural Department. This division has been organized since my arrival at the department for the purpose of taking up the problems that lie more particularly between the grower and the manufacturer.

The CHAIRMAN. Of what?

Mr. Cobb. Of any product—that is to say, it covers textiles, foods, beverages.

The CHAIRMAN. Where were you before you came here?

Mr. Cobb. I had a short contract with the sugar planters' association of Hawaii, and organized their division of pathology and physiology in their experiment station; but before that I was for five years in charge of the pathological work of the department of agriculture in Sydney, New South Wales, Australia. For three years previous I was commissioned by the Government of New South Wales to visit this country and Europe from that place to examine into agricultural industries. Previous to that I was seven years a pathologist in that same department, at Sydney.

The CHAIRMAN. You have been in charge of the pulp and paper

investigation in the Bureau of Plant Industry, have you?

Of the 235 plants shown in the above tabulation, 152 were returned as manufacturing paper exclusively, 23 pulp exclusively, and 60 both paper and pulp. In computing the averages, therefore, this segregation has been observed.

> DEPARTMENT OF COMMERCE AND LABOR, BUREAU OF THE CENSUS, Washington, December 29, 1908.

Hon. James R. Mann. Chairman Select Committee on Paper and Pulp Investigation, House of Representatives, Washington, D. C.

DEAR MR. MANN: I inclose a short statement in regard to the average prices of news-print paper. These averages have been computed from the reports made by newspaper publishers, and also from the testimony taken by the committee. I have excluded as far as possible all data concerning paper other than news print, and have made the statement as short as possible, avoiding the repetition of statistics. The text can be extended if you so desire by quoting the figures and making comparisons, but the amount of matter would depend upon your general scheme for the report.

In making the digest of the testimony that was sent you some time ago we brought together all of the information under different subjects. There is considerable on the subject of "price of paper"

which could be incorporated in the report if you desire.

The average price of paper is subject to all kinds of limitations, which should be given due weight in comparing it with actual prices paid by individual consumers. Some of these conditions are described in the inclosed statement.

The original reports of the newspapers are available for the preparation of almost any line of statistics concerning prices, and if you desire totals giving prices of paper other than news print, or further detailed description and comparison of the statistics, I shall take

pleasure in complying with your wishes.

It is unfortunate that the schedule sent newspaper publishers did not call for the amount of paper consumed and the actual cost, so that a true average cost per hundredweight could be obtained by a division of the price by the quantity. The averages reported on the schedules are far from satisfactory.

Very truly, yours,

W. M. STEUART, Chief Statistician for Manufactures.

#### PRICES OF PAPER.

The cost of paper to publishers is one of the most important features of the investigation, and information relative to this has been secured from both manufacturers and consumers. The committee has discovered that while all parties interested are willing to furnish quotations of prices, there is no uniformity in the price given, even where purchases were made during the same period. Among the causes which are responsible for these conditions, the following were brought out in the correspondence with the publishers and manufacturers and in the committee hearings:

1. The fact that some of the purchases were made under contract and others on the open market. Publishers buying under contract, as a rule, obtain more favorable

terms than those buying on the market.
2. The differences in the time when the respective contracts were made and in the duration of the contract, inasmuch as the contract price ordinarily bears a cerput engravings, such as half tones, and the fact that the engraver can now-a-days make such fine engravings, that there is constant demand for a better surface upon which to display those engravings, and to meet that we are producing a surface and a paper that can not last, in the nature of things.

The CHAIRMAN. Do you refer to book papers !

Mr. Cobb. More particularly, of course, to book paper, but there is a constant demand on the part of newspapers to use half tones: they use more and more of them.

The CHAIRMAN. News print paper is usually composed largely of ground wood, but still has an acid in it, and it practically burns up when it comes in contact with the oxygen of the air for a long time.

Mr. Cobb. The filled papers oftentimes have a good fiber back of In casting about, of course, I had to take the information that was given me as to the situation here. I was not cognizant of it, having been out of the country for so many years. I understood that there was a demand for a cheaper paper of that class, and of course the fact was brought forcibly to my attention that the price of wood was increasing so rapidly that the price of paper made from it was also increasing; and it seemed to me that one of the best things to do would be to look carefully into the vegetable matter that we are producing as by-products of our biggest crops, and there came up in that connection flax, of which we burn, as straw, several million acres annually. Also of cornstalks, of which we have an immense quantity, and of rice straw, of which there is a considerable quantity, and cotton stalks. And incidentally I would class with the maize, broom corn and sorghum as possibilities perhaps, although I have not got around to take up the matter of broom corn; but I think there is good reason to believe that we have there a plant that contains valuable fiber. We have been selecting broom corn for generations for the production of a tough straw at the top for conversion into brooms, and naturally the result of that selection has been a tougher and tougher broom straw. A correlated toughness probably has arisen in the fiber cells that are in the tissues. I think, although the quantity of that plant is small at present in comparison with others we raise, that it is something which ought to be looked into. As I say, I have not yet gone beyond making inquiries as to whether it has been used, but I have evidence it has been used by Mr. Van Wyck in New York, whose address I can give you. He has written me that he has established a factory, and seems to feel confident that he will be successful in making a commercial article out of broom corn. have had no personal acquaintance with Mr. Van Wyck, whom I think is a retired business man, and therefore didn't continue this production for that reason. He has sent me some samples of his paper. His factory has been burned.

Mr. Sims. Made from broom corn?

Mr. Cobb. Yes. Mr. Sims. From the straw or body?

Mr. Cobb. I take it it is from the stalk. I suspect that the tops would naturally be used for brooms, but there can be little question that the tough quality of the top will extend to the stalk. of the stalk will be of toughness corresponding to that in the top.

Then, I think it wise to take into account also those wild plants which we have in considerable areas and which might possibly serve

Table 1.—Average price of news-print paper per hundred weight, compiled from reports of newspapers—Continued.

		Weel	klies.	All other.		
	Period.	Number reporting.	A verage price.	Number reporting.	A verage price.	
A verage price of paper purchased in rolls	(a) (a)	32	\$2.84	.7 !	\$2.54	
A verage price of paper purchased in sheets	(4)	502 196	3, 13 3, 10	40 20	3.06 2.96	
A verage price where freight is not included	(a)	215	2. 13	19	3. 0	
• •	1907	426	2, 82	40	2. 73	
A verage price paid in selected years by all publications,	1906	310	2.64	28	2.4	
reported without reference to the inclusion or exclu-	1900	178	2. 51	16	2.30	
sion of freight charges, the quantity purchased, or the	1897	94	2. 39	11	2.0	
manner of purchase.	1894	63	2.56	7	2. 2	
	1890	51	2. 81	6	2. 43	

a Spring of 1908.

Table 2.—Average price of news-print paper per hundredweight, compiled from reports of trade, fraternal, and religious papers.

ı		Tot	al.	Dai	lies.	Wee	klies.
	Period.	Number report- fng.	Average price.	Number report- ing.	A verage price.	Number report- ing.	Average price.
A verage price of paper purchased in rolls.  A verage price of paper purchased	(a)	41	\$2.71	13	\$2.70	14	\$2.74
in sheets A verage price where freight is in- cluded	(a) (a)	91 74	3. 63 3. 26	6	3. 35 2. 95	58 40	'
A verage price where freight is not included	(a) 1907	17 113	3. 23 3. 04	3 18	2. 52 2. 48	9 60	3. 21 3. 17
years by all publications report- ing without reference to the in- clusion or exclusion of freight charges, the quantity pur- chased, or the manner of pur- chase.	1907 1906 1900 1897 1894 1890	81 40 23 17	2. 88 2. 85 2. 93 3. 28 3. 47	16 7 4 3	2. 44 2. 07 2. 03 2. 43 2. 84	40 20 12 9 7	3. 02 3. 06 2. 86 2. 92 3. 27
Chase.	- -	! <u></u> !	<del>-</del> -	Mon	thlies.	All o	 other.
			Period.	Number report- ing.	Average price.	Number report- ing.	Average price.
A verage price of paper purchased in A verage price of paper purchased in A verage price where freight is inclu A verage price where freight is not i	a sheets			12 18 16 4 26	3. 83 3. 00	7	3.04
A verage price paid in selected years reporting without reference to the sion of freight charges, the quan the manner of purchase.	inclusi	on or exclu-	1905 1900	19 9 5 4 3	3. 01 3. 19 3. 86 4. 80	1 2	2. 78 2. 38 2. 57

TABLE 3.—Average prices of news-print paper, per hundredweight, compiled from reports of magazines.

		To	tal.	Wee	klies.
	Period	Number	Average price.	Number reporting.	
A verage price of paper purchased in rolls.  Average price of paper purchased in sheets.  A verage price of paper where freight is included.  A verage price of paper where freight is not included.  A verage price paid in selected years by all publications reporting, without reference to the inclusion or exclusion of freight charges, the quantity purchased, or the manner of purchase.	(a) (a) (a) (a) (n) 1907 1905 1900 1897 1894 1890	8 5 9 1 9 6 2	4. 17 3. 29 3. 75 2. 88 2. 35 2. 14	1 1	\$4.00 4.27 4.20 3.77 3.37
		Mont	hlies.	All o	ther.
	Period.	Number reporting.		Number reporting.	
Average price of paper purchased in rolls.  Average price of paper purchased in sheets.  Average price of paper where freight is included.  Average price of paper where freight is not included.  Average price paid in selected years by all publications reporting, without reference to the inclusion or exclusion of freight charges, the quantity purchased, or the manner of purchase.	(a) (a) (a) (a) (a) (1907) 1905 1900 1897 1894 1890	7 3 8 7 5 2 1		1	3. 73

a Spring of 1908.

In making the above tabulation all returns were excluded in which the publisher-specifically indicated that they were reporting the price, not of news-print paper, but of book paper or other superior grades. In spite of this fact, however, the high averages shown in some instances in Tables 2 and 3 make it seem probable that in some cases the publishers returned the prices paid for other varieties than news-print paper without specifying this fact. The averages in these tables must therefore be accepted with some degree of caution.

It will be observed that in Table 1 the average price when freight is included is less than the average when freight is excluded. It is difficult to assign any reason for this, although it may be to some extent due to the fact that the publications in the western portion of the country, who more often reported the price excluding freight, seem to have paid a relatively higher price than those in the East, which furnished the greater proportion of the returns in which freight was included.

According to Table 1, the average price paid for news-print paper in the spring of 1908, by the publishers reporting, was \$2.57 per hundredweight for paper purchased in rolls and \$3.08 for paper purchased in sheets. The former figure shows a remarkably close correspondence with the average deduced from the prices reported to the committee as paid by 22 publishers who appeared before it in person and by 172 publishers who sent responses to the telegram sent out by Mr. Ridder on May 1. this average being \$2.56. It must be remembered, however, that there is no uniformity in these returns with regard to the inclusion or exclusion of freight charges.

In connection with the above tabulation the following tabular information, taken from Bulletin 75 of the Bureau of Labor, may be of interest:

TABLE 4.—Wholesale prices per pound of news paper (wood) in New York, on the first of each month: 1907.a

Month.	Price.	Month.	Price.		
January February February April May Jume	.02000225 .02000225 .02450265	August	\$0. 0245-\$0. 0265 . 0245 0265 . 0255 0275 . 0255 0275 . 0265 0275		
July		Average	. 0249		

[•] The figures', presented in this table are taken from Bulletin 75 of the Bureau of Labor, page 394. The original quotations are from the New York Journal of Commerce and Commercial Bulletin.

TABLE 5.— Monthly actual and relative prices of news paper in 1907 and base price (average for 1890–1899).

Month.	Price per pound.		Month.	Price per pound.	Relative price.
A verage, 1890-1899		100.0	August	\$0.0255	85.3
January	0238	79.6	September	0255	85. 3
February	0213	71.2	October	0265	88.6
March	0213	71.2	November	0265	88. 6
April	0255	85.3	December	0265	88.6
May	0255	85.3			
June	0255	85.3	Average, 1907	. 0249	83.3
July		85.3		1	

[•] The figures presented in this table are taken from Bulletin 75 of the Bureau of Labor, page 414. The monthly prices are based upon the figures given in Table 5.

TABLE 6.—Average yearly actual and relative prices of news paper, 1890-1907, and base price, 1890-1899.a

Year.	Average price per pound.	Relative price.	Year.	Average price per pound.	Relative price.
A verage, 1890-1899.  1890.  1891.  1892.  1893.  1894.  1896.  1896.  1897.	\$0. 0299 . 0382 . 0340 . 0340 . 0318 . 0323 . 0308 . 0275 . 0271	100. 0 127. 8 113. 7 113. 7 106. 4 108. 0 103. 0 92. 0 90. 6 73. 2	1899 1900 1901 1901 1902 1903 1904 1905 1906	. 0226 . 0242 . 0253 . 0267 . 0242	69. 9 94. 0 75. 6 80. 9 84. 6 89. 3 80. 9 73. 2 83. 3

a The figures presented in this table are taken from Bulletin 75 of the Bureau of Labor, page 452.

It will be noted that according to the above authority the average market price of news-print paper in New York during 1907 was \$2.49 per hundredweight, while the average of the prices reported by the newspapers sending replies to the committee's inquiry was \$2.53, a remarkably close approximation. For 1905 the figures are even closer, the average wholesale price in the New York market having been \$2.42, while the average deduced from the schedules is \$2.44. For the remainder of the years specified in the schedule sent out by the committee the averages show a wide difference, however, which in 1890 amounts to 97 cents per hundredweight.

The above tables of the Bureau of Labor were made up on a uniform basis, and the price for each year represents presumably the mill price plus the freight rate to New York, while the number of publications upon which the averages in Table 1 are based varies from 116 in 1890, to 1,020 in 1897, with a consequent variation in the factors

affecting the average reported for any given year. It should be noted, however, that the general movement of the prices shown in Table 1 is virtually the same as that shown in Table 6, the maximum price shown in both cases for the years presented in Table 1 being for 1890 and the minimum in 1897, with a steady decline from 1890 to 1897 and a steady increase from 1897 to 1907.

According to Table 6 the lowest average wholesale price of news-print paper in the New York market since 1890 was \$2.09 per hundredweight, reported in 1899, while the highest was \$3.82 per hundredweight, reported in 1890. The lowest wholesale quotation during this period was from \$1.75 to \$2 per hundredweight for October, 1899, and the highest from \$3.75 to \$4.50 per hundredweight for January, 1890.

In connection with the statistics already presented it may be well to present the following compartive extenses, which shows the price prid at different times by

following comparative statement, which shows the prices paid at different times by 19 publications whose representatives appeared before the committee.

TABLE 7.—Comparative statement of prices paid at different times by the publications represented at the hearings.

		Year	Prices paid.		<del></del>
Publication.	Period covered by contract.	which	Deliv- ered.	At mill.	Source of supply.
Maryland:		1			
	Jan., 1908, to Jan., 1909 Jan. 1, 1906, to Dec 31, 1907.			j	International Paper Co. Do.
Illinois:	Jan. 1, 1900, to Dec 31, 1907.	1800	1. 90		ъ.
Chicago Tribune Kansas:	Jan., 1905, to Jan., 1910	1904	( <b>c</b> )		Perkins, Goodwin & Co.
Topeka State Journal	Jan., 1908, to Jan., 1909	1907	2.60	\$2, 29	Itasca Paper Co.
Do			2. 21	1.91	John A. Davis & Co.
Do	Sept., 1905, to Sept., 1906.	1905	2. 25	1.93	General Paper Co.
Do	Aug., 1897, to Mar., 1898			1.34	
Massachusetts:	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1		1	
	July, 1905, to July, 1908	1905	2.00	·i	International Paper Co.
Providence Tribune	Mar., 1907, to Mar., 1912	1907	(6)	. 1	Do.
Providence Telegram	Apr., 1906	1905	1.90		Pejepscot Paper Co.
Massachusetts: Springfield Union	Jan., 1908, to Jan., 1909	1907	2. 30	1.80	J. R. Booth.
Rhode Island:	Jan., 1906, to Jan., 1911	1905	(¢)	'	International Paper Co.
North Carolina:	•	1907		. 1	-
News.	Jan., 1908–9	1907	3.00	2.5/	Antietam Paper Co.
New Hampshire:					
Manchester Union	Sept., 1907, to Sept., 1908 Sept., 1905, to Sept., 1907	1906 1905	2.00 1.90	' <b>-</b> -	Pejepscot Paper Co. Do.
New York:	Bept., 1800, to Bept., 1801	1900	1. 50		20.
Syracuse Post-Stand-	Jan., 1908-9	1907	2. 50		H. G. Craig & Co.
ard. Do	Dec., 1905-7	1905	1. 75	1.68	St. Regis Co.
Minnesota: Duluth News-Tribune.	Dec., 1904-9	1904	(d)	ļ '	Perkins, Goodwin & Co.
Ohio:	i		• •	i 1	
Akron Beacon-Journal. Missouri:	Jan., 1908-9	1908	e 2. 45	· '	Whitaker Paper Co.
Sedalia Democrat	Aug., 1907-8	1907	f 2. 634	• • • • • •	Graham Paper Co.
Woman's Home Com-	Jan., 1907-8		2. 43		Laurentide Paper Co.
panion, The Farm and Fireside.					
Tennessee:		****			M. A. Arrichan Barrio
Appeal.	Jan., 1908, to Dec., 1908			1	Manufacturing Paper Co.
То	Jan., 1907-8	1906	2.00		Do.
Do	July, 1905, to Jan., 1907	1905		i	
Do	Jan., 1905-6	1904	1 2. 37		Do.
Do	Jan., 1904–5	1903	1 2. 40	<i>-</i>	Do.
	· · · ·				

a The first two years, \$2.10, less 14 per cent; after that price to be determined.

b First year \$2.20; market price in January for each of next two years.

c 1906, \$2.05; 1907, \$2.10; 1908, \$2.50.

d 1906 (1907, less 15 per cent), \$2.10; market price after.

c Less 3 per cent for thirty days.

d 3 per cent off for each.

^{/3} per cent off for cash.

TABLE 7.—Comparative statement of prices paid at different times by the publications represented at the hearings—Continued.

•		Year in	l'rices paid.		•	
Publication.	Period covered by contract.	which con- tract was made.	Deliv- ered.	At mill.	Source of supply	
New Jersey:	•		_	Ī		
Newark Evening News.	Jan. 1, 1908, to Dec. 31, 1908.	(a)	2.50		International Paper Co	
Do	Jan. 1, 1907, to Dec. 31, 1907.		2.35		Do.	
Do	Oct., 1905, to Dec., 1906	(4)	2.25	l	Do.	
Do	Apr., 1905, to Apr., 1906	(=j	12.40		Do.	
Do	Apr., 1904, to Apr., 1905	(4)	12.40		Do.	
Do	Apr., 1903, to Apr., 1904	c1906	12.40		Do.	
Do	Apr., 1902, to Apr., 1903	1	12.25		Do.	
Do	Apr., 1901, to Apr., 1902	1	02.40		Do.	
Do	_p.,,p.,	c1900	8 2 15		Do.	
Do	••••••	c1899	0 2, 15	• • • • • • •	Do.	
Do	••••••	1898	02.124		Wilder & Co.	
linois:	••••••••••••••	-1000	1-7		White a co.	
Chicago Record-Herald.	Jan., 1906-1910	1905	(d)	i	International Paper Co	
Do	Jan., 1905–1909	1904	2.00		Do.	
BDD65566:	Jan., 1800-1909	1901	2 00		20.	
Knoxville Sentinel	1908.	1 1	4 2. 624		W. H. Parsons & Co.	
ennsylvania:	1900		- A 029		** . II. I miaolin & CO.	
Johnstown Democrat.	1908	1 1	2.55	l	International Paper Co	

No datelgiven.;
 Cotton waste.

The lowest price shown in this statement is \$1.34 per hundredweight at the mill, The lowest price shown in this statement is \$1.34 per hundredweight at the mill, or about \$1.73 delivered, paid by the Topeka (Kans.) Daily State Journal under a contract running from August, 1897, to March, 1898. The highest price shown is \$2.57 per hundredweight at the mill, or \$3, which was paid by the Asheville (N. C.) Gazette-News under a contract covering the calendar year 1908. The lowest delivered price mentioned in the course of the testimony as having been paid for news-print paper at any time was \$1.60 per hundredweight, on what is known as the production basis, equivalent to about \$1.50 on the present gross-weight basis, paid by the New York World in 1897. Mr. Hastings, of the Lynn Item, stated that he paid \$1.64\frac{1}{2}\$ delivered, for 100 tons of paper purchased on January 5, 1898. The prices paid by the New York Staats Zeitung from 1891 to 1908 were presented in a statement submitted New York Staats Zeitung from 1891 to 1908 were presented in a statement submitted to the committee by Mr. Lyman, of the International Paper Company, the maximum being \$2.90 delivered, paid in 1891, and the minimum \$1.75 delivered, from February, 1899, to August 31, 1900, and during the calendar year 1906. The evidence shows that in general the price of news-print paper reached its lowest level from 1897–1899, although as late as 1906 and 1907 the New York Staats Zeitung and the Syracuse Post-Standard obtained paper from the St. Regis Company for \$1.75 delivered.

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<sup>c April.
d 1906, \$2; not less than \$1.90 or more than \$2.10.
2 per cent_discount_for 10 days.</sup> 

Table 8 shows the prices of news-print paper during 1906, 1907, and 1908, as obtained from the evidence presented to the committee by a large number of publishers. The general average price per hundredweight, as computed from this testimony, was \$2.10 in 1906, \$2.28 in 1907, and \$2.54 in 1908.

[From evidence presented to Select Committee on Pulp and Paper Investigation.]

TABLE 8.—Prices of news-print paper.

#### 1906.

State, city, or town, and publication or publisher reporting price.	Price of news-print paper per hundred- weight.	Remarks.
Arizona:	20.07	
Tucson Daily Star	<b>\$</b> 2. <b>2</b> 5	
California: Chico Record	2,90	Carload lots.
Durango Democrat Los Angeles Evening News Redlands Review Sacramento Union Stockton Daily Record	2.90	Carload 10to.
Los Angeles Evening News	2.53	F. o. b. Los Angeles.
Redlands Review	3.40	F. o. b. Redlands; carload lots.
Sacramento Union	2.15	F. o. b. mill.
Stockton Daily Record	2.75	
Colorado:		
Denver News	1.85	Price f. o. b. mill prior to August 1, 1907.
Connecticut:	3.01	Under contract explains September 1
Ansonia Sentinel Bridgeport Standard	2. 01 2. 00	Under contract expiring September 1.
New London Daily Globe	2.00	Up to May 1, 1907. F. o. b. New London; carload lots.
Norwich Bulletin	2.00	Under contract ending February 1, 1907.
Stamford Daily Advocate	2. 10	one or an and a continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of th
Georgia:		
Augusta Chronicle	f 2. 22}	Under contract for 1906. Quotation for delivery price.
i	2.18	f price.
Illinois:		
Aurora Daily News	2.00	F. o. b. Chicago; small lots.
Centralia Evening Sentinel Chicago Daily Journal		
Chicago Tally Journal	4 2.00	Until June 1, 1907. Delivered under contract.
Chicago News and Record-Herald	2.00	Do.
Danville Commercial News	b 2.00	Contract for 1906 f. o. b. Danville.
Danville Democrat	2. 35	Until July 1, 1907.
Danville Daily Press	2.00	• /
Chicago Dally Journal. Chicago Tribune. Chicago News and Record-Herald. Danville Commercial News. Danville Democrat. Danville Dally Press Elgin Courier. Jollet Dally News Jollet Herald. Lincoln Dally Courier. Peoris Herald-Transcript. Quincy Herald. Rockford Morning Star. Illinois State Register (Springfield). Indiana:	2.00	_
Joliet Daily News	2.05	Do.
Joliet Herald	2.05	Contract for 1906.
Paoria Hamid Transcript	2.04 1.97	Price delivered until July, 1907.
Oulney Herald	2. 121	Under contract ending in 1907.
Rockford Morning Star.	2. 14	Chica consists on the 1401.
Illinois State Register (Springfield)	2. 10	Under contract f. o. b. Springfield. Freight rate
Indiana:		about 16 cents.
Evansville Journal-News	2.09 to 2.25	
Goshen News-Times	2.00	
Indianapolis, Muncie, and Terre	2.05	
Haute Star.	2.00	TT_4D A 1 1007
Marion Leader, Indianapolis Hoosier, Crawfordsville Review, and Ashe-	2.00	Until April 1, 1907.
ville (N. C.) Citisen.		
Marion News-Tribune	1.98	
Princeton Clarion-News	1.93	
Indian Territory:		
Muskogee Daily Phoenix	2.40	Price in December.
lowa:		
_ Waterloo Courier	2.00	Under contract.
Kansas:	ا مد	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
Chanute Sun	2.45	F. o. b. Kansas City. Under contract delivered f. o. b. Hutchinson.
Total acout I noune-moment	2. <b>40</b> 2. <b>52</b>	Onder consider derivered i. o. D. Muschinson.
	1.94	Price at mill.
Newton Republican		
Newton Republican Parsons Sun	] 2.20⊓	
Newton Republican	2. 20 2. 26	Until July, 1907.
Newton Republican Parsons Sun. Pittsburg Headlight. Topeka Dally State Journal.	2. 20 2. 26 2. 25	Until July, 1907. Under contract for 1906 f. o. b. Topeka. Price at
Parsons Sun. Pittsburg Headlight Topeka Dally State Journal	1	Until July, 1907. Under contract for 1906 f. o. b. Topaka. Price at mill, \$1.93.
Parsons Sun. Pittsburg Headlight. Topeka Daily State Journal. Wichita Daily Beacon.	1	Under contract for 1906 f. o. b. Topaka. Price at
Newton Republican Parsons Sun Pittaburg Headlight Topeka Dally State Journal Wichita Dally Beacon Kentucky:	c 2. <b>46</b> }	Under contract for 1906 f. o. b. Topaka. Price at mill, \$1.93.
Parsons Sun. Pittsburg Headlight. Topeka Daily State Journal. Wichita Daily Beacon.	c 2. <b>46</b> }	Under contract for 1906 f. c. b. Topeka. Price at

## TABLE 8.—Prices of news-print paper—Continued.

## 1906—Continued.

State, city, or town, and publication or publisher reporting price.	Price of news-print paper per hundred- weight.	Remarks.
Louisiana: Charles S. Clark, New Orleans (for supply of Daily States and News).	\$1.92	F. o. b. New York, under year's contract ending May 1, 1907.
supply of Daily States and News). New Orleans Picayune Shreveport Times	2.40	May 1, 1907. Delivered at wharf, New Orleans.
Portland Argus.  Portland Evening Express	1. 90 2. 00	
Maryland: Baltimore American	1.90	Under 2-year contract expiring December 31, 1907, f. o. b. Baltimore.
Massachusetts: Lynn Item	2. 25 2. 05 2. 00	Price paid on March 9. Price paid from June to October. Price in November and December.
Pittsfield Eagle Springfield Republican Taunton Herald-News	2.00 2.00	Car lots, delivered. Under 3-year contract expiring in 1908. Under contract for 1906.
Michigan: Adrain Daily Telegram. Kalamazoo Evening Telegraph		Delivered, year ending August, 1906.
Kalamazoo Gazette	1.90	November 12.
Duluth News-Tribune  Duluth Evening Herald	1. 92 <u>1</u> 1. 92 <u>1</u>	Under 2-year contract expiring September 30, 1907, delivered; freight, 5 cents.
Minneapoiis Journal	1.93	Contract expiring September 30, 1907. Contract to November 1, 1907. Under contract.
Missouri: Joplin News-Herald	1. 80	One year contract ending in July. F. o. b. mills.
St. Joseph Gazette	2.05	At mill.  F. o. b. St. Joseph, on contract beginning June 1.
Omaha Daily Bee	1. 80	F. o. b. mill, until February 20, 1907.  Delivered, under two-year contract expiring Sep-
Manchester Mirror and American Manchester National and Canada-	2 15 2 15	tember 1, 1907.  Delivered, under one-year contract expiring Feb-
American.		ruary 3, 1907. F. o. b. Asbury Park.
Asbury Park Press. Newark Star Newark Evening News. Paterson News.	2.00 2.25 1.90	Until May, 1907.
New Mexico: Albuquerque Citizen New York:	3. 45	Until May, 1907.
Albany Herald	2 45 2 2 00	Car lots f. o. b. Albany. Under contract expiring March 2, 1907, f. o. b. Jamestown.
Crowell Publishing Co. New York Morning Telegraph New York Starte-Zeitung	1. 94 1. 95 1. 75	Under two-year contract, f. o. b. Springfield, Ohio. Under contract for 1906, delivered.
Syracuse Journal	b 2.00	F. o. b. Syracuse, under contract. Do.
Asheville Citizen	1	F. o. b. Asheville.
Grand Forks HeraldOhio: Akron Beacon-Journal	1 -	Delivered, under contract expiring in June, 1907.  Under 2-year contract commencing January 1, f. o. b. sidewalk.
Columbus Dispatch  East Liverpool Evening Record	1.90 2.00 2.10	Car lots.
Marietts Journal Marion Star. Toledo Express.	2.00	Delivered, under contract expiring May 1, 1907.
e Less 3 per cent		b Less 4 per cent.

# TABLE 8.—Prices of news-print paper—Continued.

## 1906—Continued.

State, city, or town, and publication or publisher reporting price.	Price of news-print paper per hundred- weight.	Remarks.
Oklahoma: Oklahoma City Oklahomian Oregon:	\$1.90	F. o. b. under contract.
Salem Capitol Journal	2. 15	
Allentown Morning Call	1.94	
Bradford Evening Star	2.00 2.00	Price in October.
Philadelphia Press	1.90	Contract. Expires September 1, 1907. Under contract.
Pottsville Daily Republican	1.90	Under contract, delivered. Freight 18 to 20 cents
Reading Times	4 2. 10 2 00	Under contract expiring March 1, 1907.
Rhode Island:		
Providence Tribune	1.90	Under 5-year contract expiring February 29, 1912 Prices fixed each year.
Providence Journal	2. 05	Under 5-year contract expiring January 1, 1910. Prices adjusted every November.
South Dakota: Deadwood Pioneer Times Sioux Falis Daily Press	2. 20 2. 05	•
Tennessee: Memphis Commercial Appeal	2. 124	Under contract running from July 1, 1905 to The
Knoxville Sentinel	2. 00	Under contract running from July 1, 1905, to December 31, 1906. Delivered. Under contract. Delivered.
Texas: Fort Worth Record	1. 88	L'index 2 mess contract horizonine Index 1 4 - 1 - m
Houston Chronicle		Under 2-year contract beginning July 1, f. o. b. mill.
San Antonio Light		
Deseret News (Salt Lake)	,	F. o. b. mill under 2-year contract beginning in February.
William Gleason, Ogden	3. 05 1. 90	Delivered.  Price at mill until July 1, 1907. Freight \$1.05.
Vermont:	1. 94	The se min unit suly 1, 1807. Preight \$1.05.
Burlington Free Press.  Montpeller Daily News.  Montpeller Daily Journal and Vermont Weekly Watchman.	2.00	Under contract. F. o. b. Montpeller under contract expiring March 10, 1907.
Virginia: Virginian Pilot (Norfolk)	2. 15	F. o. b. Norfolk under 3-year contract expiring June 30, 1908.
Bristol Herald-Courier	2. 20	Delivered. Freight, 30 cents.
Washington:		* *
Seattle Post-IntelligencerVest Virginia:	2. 50	F. o. b. Seattle until March 16, 1907.
Fairmont West Virginian	2. 00 2. 00	Until fall of 1907.
W needing reckised	1. 95	
leneral average price for 119 of the publications for which quotations are given.	2. 10	
	190	
rizona: Arizona Republican (Phœnix)	a \$2.20 l	Price f. o. b. mili. Freight rate \$1.89. Contract
• , ,		ending April 30, 1908.
Tucson Daily Star	2. 60	
Hot Springs Daily News		Price f. o. b. mill under contract beginning December 1, 1908, and ending in spring of 1908.
Little Rock Democrat	1. 80 2. 30	Price f. o. b. mill under contract for 1907, Quotation price f. o. b. mill for 1908.
alifornia: Chico Record	3. 60	Carload lots.
Durango Democrat	3. 35 ( 3. 05	F. o. b. Los Angeles.
Los Angeles Evening News	3.00	Quotation.
Redlania Review	2. 55	Quotation. F. o. b. Redlands; carload lots. Contract for 1907.
Stockton Daily Record	3. 40 2. 25	Contract for 1907.  F. o. b. mill; new contract made in 1907.
anada:		·
Ottawa (Ontario) Citizen	2.00	Under 3-year contract beginning in May, 1907.

• Less 3 per cent, thirty days.

State, city, or town, and publication or publisher reporting price.	Price of news-print paper per hundred- weight.	Remarks.
Colorado: Denver News. Grand Junction Daily News. Leadville Herald-Democrat Connecticut:	\$2.22} 3.30 . 2.30	Price paid for I carload in June.
Ansonia Evening Sentinel. Bridgeport Standard. Hartford Globe.	2.03 2.25 1.90 4 2.00	Under contract beginning with May 1. Under contract ending in April, 1908. Price delivered under contract ending in February,
Meriden Morning Record  New London Daily Globe	b 2.60 2.00	1908. Quotation for 1908. Price f. o. b. New London for carload lots in Septem-
Norwich Builetin	2.15	ber. Under contract for 1907.
New London Day	2.60 2.50	Quotation made for 1908.
Winsted Citizen	2.50 2.70 2.00	Under contract expiring in August. Under new contract commencing in August.
District of Columbia: National Tribune	2.30	Price f. o. b. press room, under contract ending March 1, 1908.
Florida: Frampa Tribune	2. 25	
Augusta Chronicle	2.30 2.80	Under contract for 1907.
Columbus Enquirer Sum	2.30	Quotation for 1908.  Price delivered under contract for 1907.
Macon News	2. 30 2. 20	F. o. b. Macon, under contract for 1907.
Aurora Daily News Bloomington Bulletin	2. 50	Contract for 1907.
Chicago Dally Journal	c 2. 10 2. 35 1. 874	Until November 1. Subsequent to June 1.
Chicago Abend Post Chicago Tribune. Chicago News and Record Herald Centralia Evening Sentinel	d 2. 05 d 2. 05 2. 68	Denvered under contract.
Cairo Bulletin	2.09	Under contract.
Danville Commercial News	2.50 2.444	On April 1, 1907, f. o. b. Danville. Contract beginning in July, 1907, Danville, f o. b.
Danville Democrat	2. 571 2. 65	Beginning July 1.
Decatur Herald	2. 18 2. 50 2. 50	Quotation.
Household Guest (Chicago)	72.00 2.021	F. o. b. press room. Under contract f. o. b. Springfield. Freight rate about 16 cents.
Illinois State Register (Springfield)		Quotations for 1908.
Joliet Herald Joliet Daily News Lincoln Dally Courier	2.40	Contract for 1907.  Begining July 1.
Moline Daily Courier	2. 35 2. 024	Until August 1.
Peoria Inlinnal	246	F.o. h. Peoria. Price delivered, beginning with July.
Peoria Herald-TranscriptQuincy Whig. Quincy Herald.	1.96	
Quincy Herald. Rock Island Argus	2. 35 2. 05	Single car.
Rockford Morning Star	2. 45	Combined for 1007
Rockford Register-Gazette Indiana:	i	Contract for 1907.
Anderson Evening News and Weekly Democrat. Evansville Journal-News	2. 00 2. 50-2. 60	Under contract, f. o. b. Anderson.
Evansville Courier.	f 2.09	Delivered under contract ending Apr. 1, 1908.
Goshen News-Times	2. 67½ 2. 65 2. 25	Quotation delivered in fall of 1907.
a Less 2 per cent 30 days. b Net 30 days.	c Less d Less	3 per cent. • Net 13 per cent. • Less 3 per cent cash.

State, city, or town, and publication or publisher reporting price.	Price of news-print paper per hundred- weight.	Remarks.
Indiana—Continued.	·	ı— I
Laviavetta Conrier	\$2.57	Under contract.
Marion News Tribune Marion Leader, Indianapolis Hoosier, Crawfordsville Review, and Ashe- ville (N. C.) Citteriew	2. 42	l Destantes Ann 1
Crawfordsville Review, and Ashe-	2. 25	Beginning Apr. 1.
VILLE (IV. O.) CILIZEII.		•
Princeton Clarion News	2.60 2.75	Beginning in June.
South Bend Tribune	2.30	Under contract beginning August 1, 1907. Under contract.
Indian Territory.		Polon in March
Muskogee Daily Phoenix	2.82	Price in March. Price in April.
	3.00	Price under contract for 1 year made in 1907.
Iowa: Burlington Hawkeye	2.08	Until August.
Council Bluffs Leader	2.10	Under contract running until February 1, 1908.
Creston Advertiser	2.10	Under contract delivered. Freight 20 cents.
Dubuque Times-Journal	2.00 2.00	Under contract ending in August. Under contract expiring September 1.
Davenport Democrat. Dubuque Times-Journal. Dubuque Telegraph-Herald.	2.00	Do.
Des Moines Capitol. Sloux City Tribune. Waterloo Courier. Waterloo Times-Tribune.	2.00 2.06	F. o. b. Des Moines. Under contract.
Waterloo Courier	2. 401	Do.
Waterloo Times-Tribune	2.03	
Atchison Globe	2,48	Under contract, delivered.
Chanute Sun	3. 15	Under contract, delivered. F. o. b. Kansas City.
Chanute Sun Coffeyville Journal Fort Scott Tribune-Monitor.	2.57 2.80	Under contract, delivered.
Hutchinson News	2.93	F. o. b. Hutchinson.
Iola Register W. P. Feder, Great Bend	2. 40 2. 50	Under contract.
Newton Republican	2.68	Price at mill.
Newton Republican. Parsons Sun. Pittsburg Headlight. Wichita Beacon. Wichita Dally Beacon	2.81 2.5317	Beginning in July.
Wichita Beacon	1.97	Until September.
Wichita Daily Beacon	3. 15 ( 2. 75	Delivered.
,	2.80	Quotation September 21, f. o. b. Chanute. Quotation September 28, f. o. b. Chanute.
F. P. Cone, Chanute	3.15	Quotation October 1, I. o. b. Kansas City.
	3.08 3.00	Quotation October 2, f. o. b. Chanute. Quotation October 9, f. o. b. Chanute. Price at
Topoka Datin State Januara	0.01	mill \$2.62.
Topeka Daily State Journal	2. 21	Under contract for 1907 f. o. b. Topeka. Price at mill \$1.90, less 3 per cent for cash.
Kentucky:		•
Louisville Anzeiger Louisville Herald	2. 05 2. 30	Taking effect April 5, 1907.
Owenshoro Messenger	2 20	F. o. b. Owensboro.
Paducah News-DemocratLouisiana:	2.20	Taking effect January 1, 1907.
New Orleans Picayune	1 2.85	Delivered at wharf in New Orleans.
Shreveport Times.	2.40 2.86	Until August f. o. b. wharf. Gradually since January 1, 1907.
Maine:		· ·
Biddeford Daily Journal	2.50 2.50	F, o. b. Bangor. Under contract expiring May 1, 1908.
Bangor Commercial, Bangor. Biddeford Daily Journal. Portland Argus.	2.10	
Portland Evening Express	2.00	Contract expires 1911; price adjustable December of each year.
Rockland Daily Star	2. 25	F. o. b. Rockland, under contract ending Decem-
F. B. Nichols, Bath	2, 25	ber 15. Until summer.
Maryland:	1	
Maryland: Baltimore American Edward Ranie, Baltimore	1.90 2.40	'Under 2-year contract, f. o. b. Baltimore.
Massachusetts:		
Boston Journal Fitchburg Sentinel Printing Co	1.90	Under contract for 1907. Do.
Lowell Courier-Citizen	2. 25	Under contract to April, 1908.
Lynn Item	2.10	Under contract for 1907.
New Bedford Standard	1.92	F. o. b. New Bedford, under contract expiring in June.
North Adams Transcript	2.50	Quotation for 1908.
	,	Under contract for 1907.
	a Less 1 1	per cent.

State, city, or town, and publication or publisher reporting price.	Price of news-print paper per hundred- weight.	Remarks.
Massachusets—Continued.	( 92,58	F. o. b. North Adams.
North Adams Herald	2.00	Rolls, f. o. b. North Adams, odd lots.
	2.17 2.374	
Pittsfield Eagle	1 2.20	Quotation early in year f. o. b. Pittsfield. F. o. b. Pittsfield in lots. F. o. b. Springfield.
Springfield Union	2.00 2.00	F. o. b. Springheld. Under contract expiring in 1968.
Taunton Gasette	2.35	Until October 17.
Springneid Union Springfield Republican Taunton Gasette Taunton Herald News Worcester Post.	2.25 1.90	Under contract for 1907. Do.
Michigan:	2.00	
Adrian Daily Telegram Detroit Daily Abend Post Detroit Free Press	2.06 2.10	Ending August, 1907. Contract expiring July 1.
Detroit Free Press	1.90	Under contract.
		Under contract beginning in June.
Kalamazoo Gazette. Kalamazoo Evening Telegraph Lansing State Republican	2. 12 <u>}</u> 2. 06	January 1.
Lansing State Republican	2.10	Contract for 1907.
Menominee Herald Leader	2.00 ( 2.35	Until August. February 15.
Sault Ste. Marie News	2.40	July 3.
	2.60	September 14.
Minnesota: Duluth News-Tribune	-	delivered, freight, 5 cents.
Duluth Evening Herald Duluth Miles Bunnell.	1.923 1.92	Under contract expiring September 30.
Minnespolle Tournel	1 00	Under contract expiring November 1.
St. Paul Dispatch	2.51	Under contract.
8t. Paul Dispatch	2.40 2.50	First half of year. Beginning in summer, three months.
Mississippi: Jacksonville Daily News. Meridian Morning Dispatch. Missouri:	2. 45 2. 30	Under contract. Do.
Joplin News Herald		Contract beginning July, 1906. Price in March.
Kansas City (Mo.) Journal	1.80 2.50	F. o. b. at mills. Quotation for 1908.
Sedalia Democratic Sentinel	2.12	Under contract ending August 1.
St. Joseph Gazette	2. 40 2. 38	At mill. F. o. b. St. Joseph, on contract beginning June 1.
St. Joseph News Press. St. Louis Globe-Democrat.	. 2.10	Under contract.
Montana: Anaconda Standard Butte Miner	4 1.90 1.90	At mill, under contract expiring in fall. Under contract.
Nebraska: Green Island Independent	3.06	Price, July; no contract.
Lincoln State Journal	2.30	1
Lincoln Daily Star	2. 25 <u>1</u> 2. 25 <u>1</u> 2. 15	Delivered until August 1. Freight, 23 cents. F. o. b. mill, beginning February 20.
Omaha World-Herald	1. 80	Price at Wisconsin mill.
New Hampshire: Manchester Union	1. 90	Delivered under 2-year contract expiring September 1.
Manchester Mirror and American		
Keene Sentinel	։ 2.20 Վ 1.90	Contract expiring July 1.   Contract for 1907.
W. H. Pritchard, North Nashua	} 2.75	Quotation for 1908.
New Jersey: Asbury Park PressCamden Post-Telegraph	2.15	F. o. b. Asbury Park.
Newark Sunday Call	2.50	Quotations for renewal of contract expiring to
Newark Stor	( 2.60 2.35	August. Contract for one year, beginning in May.
Newark Star. Elisabeth Journal	2.00	
Bisaceth Journal. New Jersey Freie Zeitung (Newark). Paterson Guardian. Paterson News. New Mexico: Albuquerque Morning Journal.	2. 15 1. 90 2. 60	Until March 1, 1907. Until spring of 1908.
New Mexico: Albuquerque Morning Journal Albuquerque Citizen	2. 96 3. 64	F. o. b. Albuquerque, under contract for 1907. Beginning in May.

a Less 2 per cent cash.

State, city, or town, and publication or publisher reporting price.	Price of news-print paper per hundred- weight.	Remarks.
New York:		
Albany Argus	\$2.10	Under contract.
Albany Herald	2.75 2.00	Car lots L. o. b. Albany. Delivered.
Amsterdam Evening Recorder Binghamton Press	2.14	
Brooklyn Eagle	2.05	Under contract.
Crowell Publishing Company	1.94	Quotation f. o. b. Springfield, Ohio. Under contract f. o. b. Springfield.
Elmira Advertiser	1.94 2.00	Under contract.
Gloversville Leader Jamestown Morning Poet Little Falls Evening Times New York Journal of Commerce New York Staats-Zeitung New York Staats-Zeitung	2.00 2.10	Do. Under contract expiring in July, f. c. b.
Little Falls Evening Times	2.10	Until August. Until September 1.
New York Journal of Commerce	2.00	Until September 1.
New York Morning Telegraph	2.00 2.50	
New York Morning Telegraph Olean Evening Herald. Olean Morning Times. Roohester Herald.	1. 96	Under contract ending in September.
Olean Morning Times	2.75 2.05	Contract price
Rome Sentinel	2.00	Contract price.   Under contract.
Rome Sentinel. Syracuse Post-Sentinel. Syracuse Journal.	1. 75	F. o. b. Syracuse, under contract.
Syracuse Herald	a 2.00 1.80	Do.
Trov Record	l 1 on	Under contract, f. o. b. Troy.
Vernon Brothers & Co., New York. (For Modern Stories.)	b 2.00	F. o. b. press room under contract expiring Septem
North Carolina:		ber 28.
Asheville Citizen	2.55	F. o. b. Asheville.
Asheville Gazette-News	2.50	Under contract.
W. C. Dowd, Charlotte	2.14 2.60	Under contract expiring May 1, 1908.
Greensboro Dally Record	2. 85	
North Dakota: Grand Forks Evening Press	2, 39	
Grand Forks Herald	2.60	Delivered under contract commencing in June.
Grand Forks Times	2.78	Contract.
Ohio: Akron Beacon-Journal		Under two-year contract expiring December 31, f. o. b. sidewalk.
Cincinnati Enquirer	2.05	Under contract.
Cleveland, Wachter and Anzeiger	2.00	Contract price fixed yearly.
Cincinnati Enquirer Cleveland, Wachter and Anzeiger Columbus Dispatch East Liverpool Evening Record Mansfield News Marketa Luvrael	2.00 2.00	Year ending June 30, 1907.
Mansfield News	2. 18	Contract.
Marietta Journal Marion Star		Car lots.
Sandusky Register	1.9885	Contract to January, 1908.
Toledo Express	2. 421	Delivered. Contract commencing May 1.
Youngstown Telegram Zanesville Times-Recorder	1.90 1.99	Under 5 years.
Oklahoma:		
Muskogee Times-Democrat Oklahoma City Oklahoman	2.40 2.09	Contract expiring in November.  F. o. b. mill, under contract beginning January 31.
Pennsylvania: Allentown Item		210000000000000000000000000000000000000
Allentown Horning Call	2, 60 2, 40	Contract made in May.
Allentown Morning Call. Altoons Tribune Bethlehem Times.	2. 25	Under contract expiring April 1, 1908.
Bethlehem Times	2.10	Under contract.
Bradford Evening Stee	2. 20	Beginning in September, 1906. Price in October.
Easton Free Press. Gitt and Geesy, York. Harrisburg Patriot. Harrisburg Telegraph Harrisburg Star-Independent Johnstown Democrat. Lebustown Tribune	2.10	Under contract f. o. b. Easton.
Gitt and Goesy, York	2.15	Under contract expiring in August.
Harrisburg Telegraph	1.95 1.95	Under tonnage contract expiring about December 1. Under contract.
Harrisburg Star-Independent	2. 20	Do.
Johnstown Tribune	2.00 2.10	Do. Under contract for 1907.
		F. o. b. Lancaster, under contract.
Lancaster Examiner McKeesport Daily News. Oil City Derrick. Philadelphia Press.	2.00	Under contract expiring September 1.
Oil City Derrick	2.25-2.50	No contract. Under contract.
Philadelphia Inquirer	1.90	Do.
Philadelphia Inquirer Pittsburg Leader Pottsville Dally Republican	1.90	Do. Tindes contract delivered Freight 18 to 26 cents
Reading Times	2.15 2.65	Under contract, delivered. Freight, 18 to 20 cents.
		•

a Less 4 per cent.

itate, city, or town, and publication or publisher reporting price.	Price of news-print paper per hundred- weight.	Remarks.
ennsylvania—Continued.		
Scranton Tribune	a \$2.20	Under contract expiring February 1, 1908.
Wilkesbarre Times	1.95 2.271 2.05	Under contract expiring July 31. Contract beginning March 1.
wimamsport News	2 2/9	Under contract expiring in April.
Williamsport Sun	1 260	Quotation in September.
Williamsport Gazette-Bulletin	1.92	Until July, 1907.
exas:		•
Denison Herald	2. 668	Under contract expiring in July.
El Paso Daily Times. Fort Worth Telegram.	2.65 1.90	IIndependent and ing Tanuary 1 1000 & a. h. mill
Fort Worth Record	1.88	Under contract ending January 1, 1908, f. o. b. mill Contract for two years expiring July 1, f. o. b. mill.
Galveston Tribune	1.90	F. o. b. New England mill under contract.
Houston Post		F. o. b. mill.
Houston Chronicle	2.15	Beginning in February.
San Antonio Gazette	2. 27	i
San Antonio Light	1.88	At mill, under contract expiring in December.
tah: Deseret News (Salt Lake)	1.85	F. o. b. mill, under 2-year contract expiring February, 1908.
Salt Lake Tribune	2. 15	Price at mill under contract beginning July
		Freight, 50 cents.
Salt Lake Herald	2. 15	F. o. b. New York mill. Freight \$1.05.
William Glassman, Ogden	3.05	Delivered.
ermont: Burlington Free Press	2.09	
Rurlington Daily News	2. 15	Under contract for 1907.
Burlington Daily News	a 2. 50	F. o. b. mill, under 1-year contract expiring Jan
ton).		ary 15, 1908.
St. Albans Messenger	2.35	Under contract expiring in spring of 1908.
irginia:		
Bristol Herald-Courier	2.14	Beginning December 1, 1906. Delivered under contract for 1907.
Newport News Daily Press	2.30 2.10	Under contract,
Norfolk Ledger Dispatch	2. 10	Onder contract.
Roanoke Evening World	2. 15	Do.
Virginia Pilet (Norfolk)	2. 15	F. o. b. Norfolk, under 3-year contract expirit
Vest Virginia:	ŀ	June 30, 1908.
Clarksburg Daily Telegram	2.25	
Clarksburg Daily Telegram Fairmont West Virginian	2.60	Shipment in fall of 1907.
Parkersburg State Journal	2.42	
Wheeling News	₹ 2.00	Quotation for 1905.
		1
Wheeling RegisterVashington:	2.05	
Seattle Post-Intelligence	3. 20	F. o. b. Seattle, beginning March 16.
Visconsin	į	
Eau Claire Leader	2.00	F. o. b. Eau Claire. Freight, 211 cents.
Jamesville Gazette	2.00	Delivered under contract.
La Crosse Leader-Press	2.60	F. o. b. La Crosse until August 1.
La Crosse Chromere	2.57	F. o. b. La Crosse, under contract for year endi June, 1908.
Madison State Journal	2.06	
Milwaukee Journal	1.90	F. o. b. Milwaukee, under contract expiring Fe
		ruary 1, 1908.
Osakosh Daily Northwestern	2. 25	Dellarand antil Contour ! 1
Racine Journal	2. 15	Delivered until September 1.
Vyoming: Chevenne Tribune	2.10	At mill, under contract for 1907.
hode Island		,
Newport Daily News	2.40	Under contract for calendar year.
Newport Daily News	2. 20	Under contract for calendar year. Under 5-year contract expiring February 29, 19
Providence Journal	2. 10	Under 5-year contract expiring January 1, 191
		Price adjusted every November.
Providence News Publishing Co outh Carolina:	2.00	Contract.
J. C. Hemphill, Charleston	2. 15	
Columbia, The State	2. 20	Delivered under contract expiring June 30. Freigh
•		38 cents.
outh Dakota:	! !	•
Dead wood Pioneer Times		Delivered.

# 1906—Continued.

State, city, or town, and publication or publisher reporting price.	Price of news-print paper per hundred- weight.	Remarks.
Tennessee: Chattanooga News. Knoxville Sentinel. Memphis Commercial-Appeal. Nashville American	{ \$2.05 2.50 2.60 2.15 2.00 2.12}	Contract canceled in April, f. o. b. Chattaneogrunder short-time contract. Under contract, delivered. Delivered under contract. Until February 15, 1908.
General average price for 288 of the publications for which quotations are given.	2. 28	•

#### 1908.

Arizona:		
Arizona Republican (Phoenix)	a \$2.20	Price f. o. b. mill under contract beginning May 1,
		1908; freight, \$1.89.
State Con. Publishing Co. (Tucson).	∫ 2.60	Soft fold.
	2.45	Roll.
Arkansas:		
Hot Springs Daily News	2.571	Price f. o. b. mill quoted in spring of 1908.
Little Rock Gazette	2. 62	Price delivered under contract ending Jan. 1, 1909,
		about \$2.21 at mill.
California:		
Eureka Herald	3, 60	Under contract.
Canada:		
Ottawa (Ontario) Citizen	2.00	Under 3-year contract beginning in May, 1907.
Colorado:	2.00	Olider o-year constact organizate in may, 1901.
Leadville Herald-Democrat	2.50	Contract price f. o. b. mill for 1908.
Connecticut:	2,00	Contract price i. o. b. mm for 1806.
Amenda Cantinal	2, 50	Tindes contract combine Dec 1
Bridgeport Standard	2.00	Under contract expiring Dec. 1.
Dridgeport Standard	2.50	Under contract beginning May 1.
Hartford Evening Post	{ 2.25	Under contract ending in December: quotation for
77		1909.
Hartford Courant	2.50	Under contract beginning in Aprik
Meriden Morning Record	b 2.60	Price f. o. b. Meriden under contract beginning
· '	'	Feb. 1.
New London Day	2. 55	Under contract for 1908.
waterbury Republican	2.371	
Winsted Citizen	2.70	Under contract commencing in August, 1907.
Florida:	1	
Tampa Tribune	3.00	Under contract beginning January 1.
Tampa Times	2, 80	Under contract for one year beginning August 1,
<del>-</del>		1907.
Georgia:		
Augusta Chronicle	2.60	Under contract expiring in December, price deliv-
	2.00	ered; freight rate, 34 cents.
Columbus Enquirer Sun	2.85	Price delivered under contract for 1908.
Macon News	2.85	F. o. b. Macon, under contract for 1908.
Savannah Press	2.60	
Illinois:	2.00	
Bloomington Bulletin	2, 50	Under contract expiring November 1.
Cairo Bulletin	2.64	Officer contract expiring 140 territors 1.
Chicago News and Record Herald	2.10	Delivered under contract.
		Do.
Chicago Aribune	2. 424	
Danville Commercial News	2. 444	Under contract expiring December 1.  Price f. o. b. Danville, under contract expiring July 1.
Decatur Herald-Dispatch	2. 40	
Galena Gazette	2. 40	Delivered; price on open market.
		Delivered under contract expiring in July.
Illinois State Register	2.40	F. o. b. Springfield. On open market; freight
Waling Daily Dimetah	0 501	rate about 16 cents.
Moline Daily Dispatch	2. 521	Beginning August 1, 1907.
Quincy Whig.	2. 58	Tt. day and an allow to design
Rock Island Argus	2.48	Under contract expiring in August.
Rockford Register Gasette	2. 41	Contract for 1908.
Indiana:		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
Evansville Journal-News		Delivered under contract expiring in August.
Evansville Courier	2. 52	Delivered, beginning March 1.
Lefavette Courier	2.40	Open market.
Portland Commercial Review	2.05	Under contract for year ending August 1, 1908
South Bend Tribune	2.45	Under contract.
s Net.		h Not each 20 down
· Net.		b Net cash 30 days.

State, city, or town, and publication or publisher reporting price.	Price of news-print paper per hundred- weight.	Remarks.
Iowa:		
Burlington Hawkeye	2.50	Under contract expiring in December. Under contract expiring February 1, 1909. Under [contract expiring September 1; delivered;
Davenport Democrat	2.50 2.50	freight 20 cents. Under contract ending in August. Under contract expiring February 1, 1909.
Sioux City Tribune	2.49 2.50	Under contract expiring September 1. Do. Under contract expiring in August.
Waterloo Times Tribune Kansas:		
Atchison Globe. Clay Center Republican. Coffeyville Journal. W. P. Feder, Great Bend. Lola Register.	2.32 2.85 2.57	Half-car lot delivered
W. P. Feder, Great Bend	3. 15 2. 62	No contract. Carload lot bought in April.
Geo. W. Marble, Fort Scott Topeka Daily State Journal	2.35	Under contract expiring in September.  Net Wisconsin mill quotation.  Under contract for 1909 f. o. b. Topeka, price at
Wichita Beacon		mill \$2.29.
Kentucky: Desha Breckenridge, Lexington Louisville Evening Post	2. 40 2. 20	Under contract to Jan. 1, 1910. Do.
Louisville Herold	2.42	F. o. b. Harold; contract. No contract.
Owensboro Messenger	2.624	Under contract for 1908.
Bangor Commercial Biddeford Dally Journal	2. 50 2. 60	F. o. b. Bangor. Quotation in May.
F. B. Nichols, Bath Portland Evening Express	2. 75 2. 50	Under 2-year contract beginning in summer of 1907. Contract expires 1911: price adjustable December
Portland Argus	2. 40	of each§year.
Maryland: Baltimore American Edward Ranie, Baltimore Massachusetts:	2. 50 2. 90	Under contract for 1908.
Boston Journal. Fitchburg Sentinel.	2.50 2.75	Do. Do.
Lowell Conrier-Citizen	2.60	
Lynn Item. New Bedford Standard North Adams Transcript	2. 37½ 2. 50	Under contract for 1908. Under contract expiring in June. Under contract to Jan. 31, 1909. Under contract for 1908. E. o. Boringfield under contract for 1968. Price
Pittsfield Eagle Springfield Union	2. 20 2. 30	Under contract for 1908. Fr. o. b. Springfield; under contract for 1908. Price \$1.80 at Canadian mill.
Springfield Republican	2.00 2.41	Under contract expiring July 1. Quotation for new contract.
Taunton Herald-News	2. 60 2. 60 2. 40	Under contract for 1908. From October 17, 1907.
Michigan: Adrian Daily Telegram	2.40	Under contract expiring December 1.
Benton Harbor News-Palladium	2, 60	Delivered under contract expiring in November. Contract expiring July 1.
Detroit Daily Abend-Post  Detroit Free Press  Lansing State Republican	2,60	Under contract. Contract for 1908.
Sault Ste. Marie Evening News	2.60	Do.
Duluth Evening Herald	2. 38 2. 38 2. 45	Delivered under contract expiring September 1.
Minneapolis Journal St. Paul Volkzeitung. Winona Independent. Winona Republican-Herald.	2.071 2.071	Under contract beginning November 1, 1907. Under contract expiring June 10. Quotation (delivered).
		Under contract expiring October 1.
Jacksonville Daily News	2. 89 2. 70	Contract expiring February 1, 1909.
Joplin News-Herald	{ 2.20 } 2.58	Contract ending in July. Renewal price.
Joplin Globe	2. 271	Renewal price. Contract f. o. b. mill.

State, city, or town, and publication or publisher reporting price.	Price of news-print paper per hundred- weight.	Remarks.
Missouri—Continued.		
Kansas City Journal	\$2.40	
Sedalia Democrat-Sentinel	2.039	Under contract expiring August 1.
St. Joseph News-Press	2.80 2.45	Quotation for new contract.  F. o. b. St. Joseph on contract beginning June 1.
St. Louis Globe-Democrat	2. 10	Under contract.
Anaconda Standard	2.36	At mill Missouri River, freight rate 95 cents.
Butte MinerGreat Falls Tribune	2. 20 2. 27	Contract beginning October 1.
Nebraska: Grand Island Independent		Deles in Robertsons no contract
Lincoln Daily Star	3. 19 2. 40	Price in February; no contract.  F. o. b. mill, under contract, expiring August 1
·		reight, 23 cents.
Omaha World Herald	2.30	Price at mill.
New Hampshire: Keene Sentinel	2.50	Contract expiring July 1.
Manchester Mirror and American	2.65	Contract exprint sury 1.
Manchester Union	£ 2.00	Contract expiring in August.
MEGLICHOSOGI UMUUL	2.45	Quotation for renewal.
W. H. Prichard, North Nashua New Jersey:	2. 60	Contract for 1905.
Camden Post-Telegraph	2.65	
Elizabeth Journal Newark Star	2. 60 2. 50	
Newark Star New Jersey Freie Zeitung (Newark). Paterson Guardian	2.60	Contract beginning March 1.
Paterson Guardian	2. 50	Contract beginning in spring.
New Mexico: Albuquerque Morning Journal	!	F. o. b. Albuquerque, under contract for 1908.
New York: Albany Herald	2.87	Car lots, f. o. b. Albany.
Albany Argus	2.60	Under contract.
Amsterdam Evening Recorder	2.60	Delivered.
Binghamton Press	2 60	Contract for 1908. Under contract for 1908.
Brooklyn Eagle	2.50 2.43	Under contract for 1908.  Canadian paper, under contract, f. o. b. Springfield Ohio.
Elmira Advertiser	2.65	77
Gloversville Leader		Contract for 1908.
Jamestown Morning Post		Under contract beginning in July, 1907, f. o. b Jamestown.
Kingston Freeman	2.50	Reginning in Sentember, 1907.
Little Falls Evening Times	2.50	Beginning in August. 1907.
New York Staats Zeitung	2.45	
Olean Evening Herald	2. 474 2. 50	Beginning September 1, 1907. Under contract beginning in September, 1907.
Olean Morning Times	3.00	Chida commerce population as copiesates, seem
Kingston Freeman. Little Falls Evening Times. New York Stastz Zeitung. New York Journal of Commerce Olean Evening Herald. Olean Morning Times Rome Sentine!	2 60	Under contract.
		F. o. b. Syracuse under contract.
Syracuse Herald	2.55 2.30	Under contract. Outtetion from Canadian mill. f. o. b. Syracuse.
Syracuse Journal	a 2. 40	Quotation from Canadian mill, f. o. b. Syracuse. F. o. b. Syracuse, under contract for 1908.
Troy Record	2.50	Under contract, f. o. b. Troy.
North Carolina: Asheville Gazette-News	2 00	Under contract for 1908.
Asheville Citizen	2.90	F. o. b. Asheville.
Charlotte Observer	2. 574	Under contract beginning May 1.
W. C. Dowd, Charlotte	2.90	
North Dakota: Grand Forks Evening Press	2.89	Delivered under contract for 1908.
Grand Forks Herald	b 2. 54	Under contract, delivered.
Grand Forks Times	f 2.58.	Under contract expiring in August.
Ohio:	2. 51	Quotation.
Akron Beacon-Journal	b 2. 45	Under contract.
H. D. Campbell, Lime	2 45	Quotation delivered.
Cincinnati Enquirer	2.50	Inder contract
	2. 60	Under 5 year contract expiring Jan. 1, 1910; price fixed yearly.
Cleveland Wachta and Anzeiger		HAGE JOHES.
_	2.50	Beginning July, 1907.
East Liverpool Evening Record Mansfield News	2. 50 2. 55	Beginning July, 1907. Contract expiring in August.
East Liverpool Evening Record Mansfield News	9 491	Beginning July, 1907. Contract expiring in August. Contract expiring in May, 1909.
East Liverpool Evening Record Mansfield News	9 491	Beginning July, 1907. Contract expiring in August.

a Less 2 per cent.

State, city, or town, and publication or publisher reporting price.	Price of news-print paper per hundred- weight.	Remarks.
Oklahoma: Muskogee Times-Democrat Pennsylvania:	\$3.03	Under contract.
Allentown Morning Call	2.50	Under contract beginning May 15.
Altoons Tribune	2.50	New contract. Less 3 per cent 30 days.
Albert J. Barr, Pittsburg	2, 20	Under 5-year contract expiring in 1910.
Bethlehem Times	2.60 2.56	Under contract for 1908.  Do.
P. C. Boyle, Oil City.	2.50	Quotation in April
Bradford EraEaston Free Press	2.95 2.65	Beginning in September, 1907. F. o. b. Easton, under contract for 1908.
Gitt & Geesy, York	2.60	Beginning in August, 1907.
Easton Free Press. Gitt & Gessy, York Harrisburg Patriot. Harrisburg Star-Independent Harrisburg Telegraph Johnstown Democrat Johnstown Tribune Lancaster Examiner	2.50 2.60	Under contract commencing December, 1907. Under contract for 1908.
Harrisburg Telegraph	2.50	Do.
Johnstown Democrat	2. 55 2. 60	Do. Do.
		F. o. b. Glens Falls, freight paid; contract for 1908.
McKeesport Daily News	2.55	Under contract commencing Sept. 1, 1907. Under contract.
Philadelphia Inquirer Pittsburg Leader	2.20	Do.
Pottsville Daily Republican Scranton Tribune Williamsport Gasette-Bulletin	2.65	Under contract, delivered, freight 18 to 20 cents.
Williamsport Gazette-Bulletin	2. 65 2. 35	Under contract for 1908. Under contract made in July, 1907.
Wilkesbarre Times Rhode Island:	2, 50	Under contract beginning Aug. 1, 1907.
Newport Daily News	2.75	Under contract for calendar year.
Newport Daily News	2. 50	Under 5-vear contract expiring February 29, 1912.
Do	2. 50	changing prices each year. Under 5-year contract expiring January 1, 1910 prices adjustable every November.
Providence News Democrat	2. 75	Contract.
South Carolina: Columbia State	2.70	Delivered under contract beginning July 1, 1907; freight 38 cents.
J. C. Hemphill, Charleston South Dakota:	2. 70	Under contract for 1908.
Sioux Falls Daily Press	2.90	Delivered. No contract; price per ream.
Chattanooga News.	2. 771 2. 621 2. 621	Under short-time contract.
Knoxville Sentinel Nashville American	2.624 2.621	Delivered under contract for 1908. Under 1-year contract expiring February 15, 1909.
Texas: Dennison Herald	2. 852	Delivered under contract expiring in July; freight
El Paso Daily Times	3. 20 2. 35	64 cents. Under contract expiring November 1. Six months' contract beginning July 1, f. o. b. mill.
// Value appropriation	2. 25	Quotation for a year's contract.
M. E. Foster, Houston	1.80 1.80	Under contract expiring July 1, f. o. b. mill.  F. o. b. Canadian mill, under contract expiring July 1, equal to \$2.10 New York mill.
<b>7</b>	1. 95 2. 30	Quotation for renewal at Canadian mill. Quotation at American mill. Under contract for 1908; price at mill.
Fort Worth Telegram	2. 42 2. 37	l F. O. D. New England mill linder contract hegin.
Houston Post San Antonio Light	2. 25 2. 23	ning in April.  F. o. b. mill, under contract. At mill under contract expiring in December.
Waco Times-Herald	1 200	Under contract expiring Nov. I. Renewal quotation.
Utah: Deseret News (Salt Lake)	2. 25	F. o. b. mill under contract beginning June 1, freight \$1.05.
	3. 20	freight \$1.05.
William Glassman Ogden	2. 05 2. 65	Delivered price on new contract. F. o. b. mill; new contract price made in May. F. o. b. Salt Lake, under 2-year contract beginning July 1, 1907; mill price, \$2.15.
Vermont: Burlington Free Press	2.60	Under contract expiring in October.
Burlington Daily News	2.70 2.60	Under contract for 1908. Quotations for new contract.

a Less 3 per cent.

#### 1908—Continued.

State, city, or town, and publication or publisher reporting price.	Price of news-print paper per hundred- weight.	Remarks.
Virginia:		
•	1 \$2.71	September 1, 1907, freight, 30 cents.
Bristol Herald-Courier	2.85	Quotation for July delivery. Delivered under contract for 1908.
Newport News Daily Press	2.70	Delivered under contract for 1908.
Norfolk Ledger-Dispatch	2.60	Under contract for 1908.
Richmond News-Leader	2.50	
Rosnoke Evening World	2.80	Under contract for 1908.
Roanoke Evening World Virginia Pilot (Norfolk)	2.15	F. o. b. Norfolk, under 3-year contract expiring June 30.
Washington:	1	
Grays Harbor Washingtonian West Virginia:		
Clarksburg Daily Telegram		
Parkersburg State Journal	2.72	1
•	( 2.51	Under contract for part of 1908. Quotations.
Wheeling Register	.∤ 2.38	Quotations.
	2. 424	Purchase on open market.
Wisconsin:	1	
Eau Claire Leader		Under contract expiring in August.
Janesville Gazette		Under contract expiring Oct. 1.
La Crosse Chronicle.	1	Under contract for year ending July, 1909, f. o. b La Crosse.
Madison State Journal	2.55	
Milwaukee Journal	2.30	Under contract f. o. b. Milwaukee.
Oshkosh Daily Northwestern	2.40	Under contract beginning in February.
Racine Journal	. 2.50	Under contract expiring Sept. 1; price at mill.
Wyoming:	1	
Cheyenne Tribune	2.55	At mill under contract beginning Jan. 1.
General average price for 215 of the publications for which quotations are given.	2.54	

The following table, presenting statistics relative to prices of paper, collected from 611 daily newspapers, classified according to circulation and distributed by States, lends interest to the average prices of paper already presented.

not having any discrimination against it could pay in the neighborhood of \$5 a ton for stalks, and that where certain kinds of corn are grown, which are very largely grown, Mr. Hartley tells me, that the farmers could part with it at \$5 a ton, and would do so, if not all of them, a sufficient number, in a 75-mile radius, to run a small mill. Roughly, that is my present opinion, and you can see I have given you the data on which it is based. You see how incomplete it is. We have really only analyzed a single corn, and we had to start this under unfavorable conditions as to season of the year.

The CHAIRMAN. The mill, if you could locate it at all, would necessarily have to be a small mill in a district where they grow corn very extensively, and necessarily located close to a coal mine, I take it.

You would have to be close to a coal mine, would you not?

Mr. Cobb. You would have to have cheap power, of course.

The CHAIRMAN. You would have to have cheap coal, would you not? I am not talking about cheap power.

Mr. Cobb. That is the source of power.

The CHAIRMAN. Oh, no; this is a soda process. There is no soda process, as I understand it—let us see what your understanding is—that can live long in paper-pulp making unless you can recover the soda?

Mr. Cobb. Yes, that is true; you have to have heat.

The CHAIRMAN. And the recovery of the soda requires an enormous amount of fuel?

Mr. Cobb. Yes. Of course, thus far we have not made any experiments such as have been rather crudely outlined and thrown into the future, simply because this seemed to be the thing to go at first. We may have made a mistake in taking this thing first, but we used our best judgment. There is a proposition of compressing the fibers together in such a way that they can be ground.

The CHAIRMAN. What do you mean by grinding?

Mr. Cobb. Just as you grind wood. It is conceivable, of course, that by forcing stalks of some crop—I am not speaking of corn now, but anything of the kind—through an aperture or a compressor that can be worked at right angle to the axis of it, at the same time putting on periodically a pressure at the back, like the pressure that is put onto a log of wood, you could compress some of this matter so as to grind it. That is conceivable. I do not know that anybody has ever tried it.

The Chairman. I am not sure whether it is conceivable or not. You would have to press it with the stalk before cutting it up, of

Mr. COBB. If you will just take a stalk of maize, Mr. Mann, and a grindstone, and wind it with string to keep it from splitting, and press it against the grindstone, you will see that it can be ground off. Doing that under pressure, it would be all the more feasible, it seems to me.

The Chairman. This pithy matter would make too crackly a paper

for news paper?

Mr. Cobb. It is out of the question for anything to be printed on, of course. The only use I can see for that is something that would come in competition with strawboard, and possibly in certain ways with celluloid.

TABLE 9.—Number of daily newspapers reporting average price paid for paper in spring of 1908, average price including and excluding freight, and average price for selected years, also preference as to removal of tariff on wood pulp and news-print paper, papers grouped according to circulation, by States—Continued.

	Number of papers and average price per hundredweight, spring of 1908.	of pap per 1 of 1908	pers an hundi 6.	d aver	gar. gart,		Freight	ght.		How ship-		Number reporting and	odeu	rting 6	s pur	average price paid per hundred weight January 1.	price ry 1.	peid	per	hund	red we	ight	S. B	Remova of tariff.	a
State and circulation.	Total.	<u> </u>	Rolls.	Sheets	ä				.9	atol 1	10001	1907.		1905.		1900.	<b>=</b>	1897.		<b>3</b> 8	<b></b>	98			1
	Number. A verage price.	Number.	A verage.	Number.	A verage price.	Included.	Average pric	Not included	Average prio	Car lots. Less than ca.	Number.	A verage 9.000.	Number.	A verage.	Number.	A verage.	Митрет.	A verage.	Number.	A verage.	Number.	A verage price.	Yes.	.oV	Not stated.
Colorado	5 \$2.77	*	<b>22</b> 86	<b>**</b>	<b>53</b> . 25	86	<b>\$</b> 3.04	- <del>2</del>	.37	:	- <del>*</del> - <del>*</del>	1 \$2.38	~	<b>23</b>	<b>~</b>	<b>22</b> 21	_:	_ ;		_ :			*		8
10,000 but less than 50,000	44 44 38	99	48	:-	3.25	-01	3.83	~ ~ d	នន	(4 65		4 4	~~	88	01-	2.4 2.5	: :						4	::	
Connecticut	15 2.60	2	20.02	**	8	===	25.		<del></del>	:_	15	5 2.11	12	2,	<b>••</b>	2.16	•	<b>22</b> . 16	60	<b>22</b> . 13	_	1.80	=	<u>:</u>	4
10,000 but less than 60,000. 5,000 but less than 10,000. Less than 5,000.	1000 444 238		826	89		P-10	88			: : :  ⊶∞•c		4444		934		388	-4-	4-1% 528	-72	88	<b>-</b> ::	1.88			:
Delaware.	1 2.00		2.68	<u> </u>	-		2.00	÷			<b>-</b> :-	2.10	- <u>-</u> -	2,3		2.76		8.9	-	8	-	3.13	-	$\frac{\cdot}{\cdot}$	:
10,000 but less than 50,000	1 2.60	-	8			-	2.60	<u>;</u>   <u>;</u>	:	-	:	2.10	-	2.30	-	2.75	-	2.30	-	8	-	8.13	-	1	:
District of Columbia	2 2 20	-	8		:	~	2.80	÷	:		~ <del>*</del>	1.86	~	8 8	_	2.10		<u>:</u>	_:-	<u>:</u>	-	Ī	-	:	-
10,000 but less than 50,000	2 2.50	2	2.50			64	2.65	:   :	:	· :		1.85	~	2.30		2 10		<u> </u>	<u>                                     </u>	<u>                                     </u>			-	<u> </u>	-
Florida	2 2.85	2	2.86		i	~	28	$\frac{\cdot}{\cdot}$		:		2.20		2.28	-	2.26	-	2.25	-	2.28	-	25.28	69		:
10,000 but less than 50,000	2 2.85	8	2.85		1	60	3.86	-  -	<u>                                     </u>		6	2.30	-	2.2	-	3.26	-	2,23	-	25	-	22	~		:
Georgia	2 2 66	**	2 86	•	2.83	~	9	4	88	~		6 2.19	~	8	-	2.08	<u>:</u>		_ :-			:	•0	_ <u>:</u>	:
50,000 but less than 100,000 5,000 but less than 10,000 Less than 5,000.	-04 444 858		44		28		88	69	28			444	1000	44 88	-	4 8							+000		1 ! ! !

ally accumulating evidence from all the sources we can think of as to the distribution of plants that I mentioned earlier; that is, this wild salt marsh rush, so-called, and saw grass, and canebrake, and so on. It might interest you to see this map of the canebrakes which was prepared by Doctor Merriam's bureau. He had charge of the Biological Survey, and while they do not attempt to estimate the acreage of canebrakes, they say that that yellow coloration there gives an idea.

The CHAIRMAN. In other words, it is common all over the South,

east of the Mississippi River?

Mr. Cobb. Yes.

The CHAIRMAN. Even west of the Mississippi River?

Mr. Cobb. Yes.

The CHAIRMAN. In the bayous and low ground?

Mr. Cobb. Yes; there is no question about that being convertible into paper. I have samples of the paper here, and, as I said before, prominent technologists in India, of world-wide reputation, have come to the conclusion that paper can be made from bamboo.

The Chairman. Is it not a fact that these canebrakes are very expensive to get at? You can not get it out without boats, and in many

places you can not use boats.

Mr. Cobb. What naturally would be expected would be that a mill should be located there. It is not to be supposed that that stuff is to be carted up north and made into paper. That is out of the question. The mill would have to be located where the material is. The mill would naturally have to be located on the river bank, and this stuff would have to be brought in boats down the rivers or the water courses; and looked at in that light, it is in some places accessible matter.

The CHAIRMAN. Have you taken into consideration the fact that a pulp mill or a sulphite mill is a rather expensive proposition, or a

anda mill 8

Mr. Cobb. It is something that requires several hundred thousand dollars to start a decent plant; there is no question about that.

The CHAIRMAN. You would have to have enough territory with

material tributary to the mill to last for a number of years?

Mr. Cobb. Yes; that is taken into consideration in the case of every one of these wild crops. We have taken those of which there was not only a quantity, but which we knew would reproduce if cut. The cane is one of those. That paper is made by Mr. Little, of Boston, who has also a technological laboratory. That paper is made of cane from the canebrakes. His opinion is there, and it coincides entirely with that of these Indian experts.

Here is a report of the manufacture of paper from the salt marsh rush. These analyses were made at a well-known English laboratory from material sent by my colleague, Mr. Dewey. We sent over several hundred weight of this rush. It is the kind of "grass" you go out and shoot ducks in on the coast. The reports are favorable on that for certain purposes, especially as a fiber that might be mixed with ground wood, for instance, in making news paper. I will say in this connection that that stuff had been previously tried, and I think this shows to some extent the advisability of going at this matter in the way we have. That "grass" or rush, rather, has been tried by a mill in South Carolina, and they reported to us with regard to their

They said they could get any amount of this stuff at \$3 a ton, but that when they tried to convert it into paper it gave a pulp that was too mushy. Note that word "mushy." That is exactly the effect these pith cells have on pulp. Any paper maker would say, if you took that unscreened pulp from cornstalks, "Too mushy." For that reason I was very desirous, as soon as this process for separating out proved successful on corn, to see whether it would prove successful on rush, and in consequence we had it tried on tule grass, and the process was equally successful.

The CHAIRMAN. The tule grass is about the same as the cat-tail? Mr. Cobb. No; it is not. Mr. Mann, it is more like this salt-marsh rush, really. It does not have a wide blade like the cat-tail; it is narrower and roundish. If you have ever seen any of the bottled beer that comes from the Pacific coast, the bottles are always done up in tule grass. It grows in great quantities on the Pacific coast rivers and is distributed all through the east and north in swamps. I think that a line of experiment, either public or private, should be kept up in connection with this separation. I do not believe that this process we have tried is the only way. I think it is extremely likely that some modification of this or some other process can be obtained by which the pith cells can be separated very cheaply. This is the first time it has been done by a separate machine. You can make a sort of a separation with a machine that is used in the usual paper factories.

The CHAIRMAN. This report is the report as to the salt-marsh grass. Mr. Cobb. I think that has already been made public. There would be no objection to using that. I would be glad to send you a

copy of it.

The Chairman. This is an official report.

Mr. Cobb. The form of it shows it is made to be published.

The Chairman. It is an official report. Whether it has been published or not would not make any difference to us.

Mr. Cobb. We did not pay for that, you know. In fact we have

made this money go about as far as we could, I think.

The CHAIRMAN. This sort of an experiment is a very reasonable and proper use of the money, though I do not quite understand why you have to send it abroad.

Mr. Cobb. Naturally we would have turned that over to the Forest

Service laboratory.

The Chairman. That would have been a great mistake, if you had. Mr. Cobb. But we took it up before we made the arrangement with the Forest Service at all.

The CHAIRMAN. If you can send samples of different plants to paper mills which have laboratories for them to experiment with and report to you, why is not that the most satisfactory way of doing it?

Mr. COBB. It is, provided they have the proper facilities; but I find that, while they have the very best facilities for ascertaining the cost commercially of the different articles which they habitually use, outside of that range their fund of information is very small.

The CHAIRMAN. There are only a few that would have them,

probably.

Mr. Cobb. Very few indeed, I assure you. Experimental work is a very expensive thing. No matter how you try to save, if you get at

results you have to spend money, and these people are simply making money, and they do not divert very much of it to experiment work. You can not blame them. Perhaps when they started they did experiment, but once having started their mill they do not expend large sums of money in experiments, and none of them maintain experts of a very wide character of training. They are mostly men who have been brought up in the paper industry. It surprised me to find that very few of them employed graduates of our institutes of technology.

The CHAIRMAN. I think you will find that one of the results of this investigation will be that several of the pulp and paper mills will hereafter have a good laboratory with a first-class chemist at the

head of it.

Mr. Cobb. That will be a very good result.

Mr. Cobb here presented the following documents to be printed in the record:

ANALYTICAL AND TECHNICAL LABORATORIES, Aynsome, Grange-Over-Sands, Lancashire, November 19, 1908.

Mr. Lyster H. Dewey.

Bureau of Plant Industry,

United States Department of Agriculture, Washington, D. C.

DEAR SIR: I have much pleasure in sending you with this letter my report on the salt marsh rush, samples of which you sent me some little time ago, and under separate cover I am sending you five samples of paper made from this grass. I regret very much that I have been so long in sending this forward, but I have had so very much to do in other directions that I have not been able to devote the necessary time to it.

The other smple, namely, fresh-water cord grass, I hope to have ready in December,

and will then send you my report, together with specimens of paper.

If you at any time come across any other fibers which might be of use for papermaking purposes. I shall be glad if you will be kind enough to forward me samples for investigation. I wish very much to experiment with pineapple fiber (Ananassa satiba) and also with wild pineapple fiber (Bromelia sylvestris). Do you consider these to be of any use?

Should your department at any time require any investigations undertaken in connection with fibers, other than from a paper-making point of view, I shall be pleased to

hear from you and cooperate with you.

Trusting that the report I am sending you will be of interest, I am, dear sir,

Yours, faithfully,

J. STEWART REMINGTON.

#### AMERICAN SALT MARSH RUSH (JUNCUS ROEMERIAMUS).

[By J. Stewart Remington, Douglas Dowack, and Bedford Dixon.]

This grass belongs to the natural order Cyperaceae. It is known in different localities under various names, such as "Fox grass," "White rush," "Marsh grass," "Salt grass," "Sea-salt grass," "Salt marsh grass," and "Rush marsh grass." It is a reed-like grass, from 1 to 4 feet in height, with 2 or 4 slender, erect, widely springing spikes. It is a common grass on salt marshes, ranging from the State of Maine southwards to Florida and along the Gulf Coast to Texas. It is also found growing in large quantities at many points along the coast from Massachusetts to Florida.

A sample of this grass was forwarded for investigation to the Aynsome Technical Laboratories by the director of the Fiber Division of the United States Department

of Agriculture some few months ago.

In the following account of the work which has been done in connection with this grass will be found the results of the various trials made and methods employed in

the production of paper from the pulp obtained.

The sample consisted of about one hundredweight of a stiff, dark-brown colored grass, closely resembling the rushes that thrive in the marshy districts of this country, being smooth, cylindrical in shape, varying in diameter from one-eighth to one-sixteenth inch, and having an average length of about 3 feet.

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TABLE 9.—Number of daily newspapers reporting average price average price for selected years, also preference as to removal by States—Continued.		State and circulation.		Obio	50.000 but less than 100,000 10,000 but less than 50,000 5,000 but less than 10,000 Less than 5,000	Oklahoma	10,000 but less than 50,000 5,000 but less than 10,000 Less than 5,000	Oregon	Less than 5,000	Pennsylvanía	100,000 and over 60,000 but less than 100,000 10,000 but less than 50,000. 5,000 but less than 10,000. Less than 5,000	Rhode Island	50,000 but less tham 100,000 10,000 but less than 50,000 I ves than 5,000
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bleaching action and treating further with a weak alkaline solution, rewashing, and finally repeating the bleaching process. It may be here mentioned that some considerable care is necessary in carrying out the bleaching operations in a satisfactory manner, as this pulp contains a fair amount of lignified fiber and is consequently readily liable to form yellow chlorination derivatives of the less resistant cellulose to hydrolytic treatment. This difficulty was overcome by maintaining a basic reaction Attempts were made to bleach with sulphurous acid in various conditions, but the calcium hypochlorite was found to be the most efficient.

Some interesting experiments were made by bleaching this pulp in the sun, excellent results being obtained, seemingly somewhat better than those arrived at under favorable conditions in the beater. The amount of manipulation required, however,

would not admit of the employment of this method on a large scale.

Sizing, loading, etc.—Sufficient of the bleached pulp having been obtained in a pure state, by means of washing until free from dirt and other matter, some of the auxiliary preparations, such as the use of an "antichlor," were dispensed with. In certain cases where the pulp was sized the engine-sizing process was generally adopted. When the pulp was nearly ready for running, the rosin size, in the proportion of from 3 to 5 per cent, was added to the mixture of pulp and filling, shortly after the latter was incorporated, and the complete reaction brought about by the addition of the requisite amount of alum to the contents of the beater. At this stage of operations some delay was experienced in dealing with a rather unusual amount of frothing that was produced in the beater, which was finally removed on the addition of a small quantity of paraffin.

During the determination of rosin in the finished paper, it was noticed that there had also been extracted a quantity of foreign matter, other than rosin, of an oily nature, which, on further investigation, was found to have been derived from the presence of this matter appears to have a beneficial effect upon The presence of this matter appears to have a beneficial effect upon original pulp.

paper prepared from the unsized pulp.

Manufacture of paper on model mill.—In the following scheme of procedure several specimens of good paper were made, both with the marsh-grass fiber alone and also in

conjunction with certain other pulps.

It is not proposed to enter on a detailed description of the methods of working and running on the paper machine, as all the papers prepared were furnished under similar conditions, and but for a little variation in their respective felting properties, which was regulated from time to time by a suitable adjustment of the couch roll, gave most satisfactory results.

After leaving the press roll the paper was passed over a series of nine drying cyl-

inders, and finally through two rollers.

When used without mixture with other fibers, the salt-marsh pulp yields a close sheet of paper, suitable for good wrapper or casing purposes, and makes a smooth and glossy surface under the calender. It is capable of carrying a considerable amount of loading, and when sized will stand a severe test.

A specially good and uniform paper was produced from a mixture of this fiber with mechanical wood and sulphite pulp, 50 per cent of the former being included. This paper, when suitably loaded, would prove very suitable for an average writing, printing, or art paper, possessing an excellent texture, and having superior "feel" and "handle" properties. Unfortunately, no means was discovered of preparing the half-stuff in such a manner as to avoid the production of paper having speckles on the surface, unless subjected to a very severe treatment, which would be detrimental to its value as a finished article. This fault is caused by the presence of a large number of groups of cells in the fiber, which has been previously referred to and but for this of groups of cells in the fiber, which has been previously referred to, and, but for this fact, a high-class writing material could easily be manufactured.

In the following table will be found an account of the chemical and physical char-

acteristics of the principal samples of paper prepared:

	Chemic	al constitu	uents.	Physical properties.					
Furnish and composition of paper.	Moisture.	Ash.	Rosin.	Breaking strain in pounds.	Stretch.	Folding test.	Thickness in inches.		
Salt-marsh grass pulp: Unbleached, unsized	10.45	2. 44	Nil.	23 95 19.14 17.37	Per cent. 2.34 1.25 1.97	674 547 540	140		
wood, 25 per cent; bleached, sized	9.60	1.80	1.70	16. 25	1.44	837	200		
pulp, 50 per cent; bleached,	8.00	2.71	1.98	13.54	1.16	925	181		

It may be pointed out that the resistance to strain and stretch was determined only on the "way of machine" of these papers, and is not an absolute measure of strength, but useful for the purpose of comparison. Allowance must also be made in each case for the variation in degree of thickness.

Aynsome, Grange-over-Sands, November, 1908.

Mr. Cobb. This is a small map which is the result of a great deal of correspondence. It shows the range of the saw grass. That grows in the Everglades of Florida. We have not gone very far with that, because we have not seen how that stuff could be got at. You will remember that there was a railway pushed through down there; you probably saw an account of a "dry-land boat." They had to engineer through the Everglades, and in order to do it they constructed a special machine that enabled them to go in. I have started some correspondence to see what there is in it, but beyond that we have not done much. With regard to cotton stalks, I would report that we have them in Washington; and we have this point, which, so far as I know, is a novelty, but I would not be at all surprised if somebody else had hit upon the same idea: Noticing that cotton stalks standing in the field in the winter sometimes lose their outer white bark, it occurred to me if they lose that so easily, then by moistening them and agitating them mechanically that might be so removed. One of the greatest obstacles in making paper from cotton stalks hitherto has been in bleaching. If you will notice on these samples, there are specks all through the cotton-stalk paper. is very difficult to bleach that stuff. That results from the presence in the pulp of bark that has not been removed or bleached. We have, in the Division of Agricultural Technology, of which I have charge, a man who is devoting his time to cotton, Professor Bennett, who has charge of some of our cotton work, and I asked him to make observations on this line I have just indicated. I noticed myself the fact that the bark would come loose, and I asked him to try different varieties of cotton, by soaking them and agitating them, and observe whether this bark could be removed mechanically, and he reported to me very recently, just a week ago, that he has tried it, with some success. Some lots of cotton stalks have just come to our laboratory, and my suggestion is, of course, that they take a small agitator, a laundry washing machine, or something of that sort, that will not cost much, and exploit that point a little more thoroughly. Where water power was available, or perhaps even where it was not, it would be possible to get rid of the outer bark by a mechanical agitation, which might be a very important step toward the utilization of cotton stalks for paper.

Mr. Sims. Have you a paper to submit on the cotton-stalk propo-

sition like the one you submitted on the marsh grass?

Mr. Cobb. No; we have not.

The CHAIRMAN. Do you regard the manufacture of paper from

cotton stalks now as a commercial possibility?

Mr. Cobb. The matter of collecting and handling the cotton stalks would be even graver than that connected with corn.

The CHAIRMAN. And there is no possible stock food?

Mr. Cobb. No.

The CHAIRMAN. On the other hand, you get a very much larger percentage of fiber per ton?

Mr. Cobb. I think there is a larger percentage of fiber.

#### TARIFF ON SULPHITE FIBER.

KATAHDIN PULP AND PAPER COMPANY, Lincoln, Me., December 21, 1908.

Hon. J. R. MANN,

House of Representatives, Washington, D. C.

MY DEAR SIR: Replying to yours of December 9, I have no objection to your printing the statement which I had prepared for the Ways and Means Committee, if it would have any weight in relation to the decision on the tariff for sulphite pulp.

Since writing you on the 5th instant the importers of European sulphite have made a further discount in their prices, and the entire

industry is very seriously affected by it.

With kindest regards, I remain,

Yours, very truly,

N. M. Jones.

KATAHDIN PULP AND PAPER COMPANY, Lincoln, Me., December 5, 1908.

Hon. James R. Mann,

House of Representatives, Washington, D. C.

My Dear Mr. Mann: I am in receipt of the six copies of Hearing No. 28 of the pulp and paper investigation kindly sent to me to Bangor by your direction. I wish to thank you for your thoughtfulness in the matter, and assure you that I appreciate it very much. I take pleasure in sending herewith a statement which I made up to present to the Committee on Ways and Means in Washington at the hearing, but was unable to attend, giving a few of my reasons why duties on sulphite fiber should not be reduced on Canadian product. I am also trying to put in writing my reasons why the duties on European pulp should be increased. As soon as I have them in

shape I will furnish you a copy of same.

The sulphite-pulp business has been having a very hard time during the past year, and between ourselves, we have all lost money, and for your information, I also inclose copy of letter received by me today from our western brokers, relating to the offers that are being made to the western mills on foreign sulphite pulp by brokers. At the prices quoted in this letter, if the sulphite mills in this country had to compete, we would either have to close our plants or go into bankruptcy in a very short time. I will not undertake to make any arguments in this letter. I simply feel that I would like to give you such information as I have at my command. If you care for further data in connection with this matter, I should be pleased to send it to you from time to time, as I believe that you are willing to give to our industry all the protection that we should have, and I for one do not feel that we are asking for more than we are entitled to.

With kindest regards, I remain,

Yours, very truly,

N. M. JONES.

Mr. Cobb. Certainly.

I do not know whether you have seen a map of the distribution of the paper mills [exhibiting chart].

The CHAIRMAN. I have had it in mind.

Have you given any attention in your investigations to the subject of so-called "Kraft" paper and its manufacture in the United States?

Mr. Cobb. No; we have not.

The CHAIRMAN. You know what the Kraft paper is? It is a very light weight, extremely strong wrapping paper.

Mr. Cobb. Yes, sir; I know.

The Chairman. It is now being imported into our country in considerable quantities, and the weight is not over one-half the weight of ordinary wrapping paper, and in some cases not so much as that. I was told by a gentleman who ought to know that that paper was made from resinous pines in northern Europe, and if so, and we could utilize the waste or a by-product of the resinous pines of the South for the manufacture of the supply, it might be very desirable.

Mr. Cobb. I will look into that.

The CHAIRMAN. That is made, I think, by the so-called sulphate process, which can not be used where there is very much population.

Mr. Cobb. The process is very deleterious to health.

The Chairman. I do not know that it is not unhealthy, but there is a very bad odor. They say it is like a rotten-egg factory. I do not know.

Then, in the course of your experiments, I wish you would consider the proposition of trying other woods for ground wood besides spruce, and possibly ascertain from some of the mills how far they have experimented with it, what success they have had, and what difficulties they have met with, with the possible view of obviating the difficulties in grinding other kinds of timber besides spruce. The present process of grinding wood, while exceedingly cheap, is also exceedingly crude. It might be that it would be possible to grind other woods than spruce, and possibly some wood that would reproduce very rapidly. They make to-day soda fiber out of cottonwood. The soda-fiber process is too expensive to make news print paper from. Cottonwood grows very rapidly in many places, willow grows very rapidly in many places, and probably other trees grow rapidly and reproduce rapidly. If it were possible to reduce that class of wood to ground wood it seems to me it would be a very valuable acquisition. I do not understand why it is not possible. With your knowledge of the form of the cellular matter, you might be able to make discoveries in reference to that.

Mr. Cobb. I will certainly call the attention of the forestry people to that question. It is one that would naturally fall to them rather than to the Bureau of Plant Industry. I see what you mean and I will

not lose sight of it.

The CHAIRMAN. Some time ago the newspapers quite generally printed dispatches and articles purporting to be statements about the results of these experiments as to cornstalks, etc., stating that they could make paper out of cornstalks for about \$15 or \$20 a ton. What have you to say about that?

Mr. Cobb. I remember the articles and remember the scores and scores of letters of inquiry that came in to us on that subject. The reply that we made to all those letters was that the statements were

A large amount of the wood supplied us from Canada has been an aid to their agricultural development. The farmers have had an assured and profitable income while clearing their lands, and this advantage will continue as long as we admit pulp wood

duty free.

The sulphite schedule with Canada should not be touched. Prices of sulphite have not materially advanced in eighteen years, while the cost of wood has advanced nearly 100 per cent and labor about 40 per cent. Prices have been kept down below a reasonable profit by the continual development of new mills in this country, and on account of the low duty, Canadian developments and competition and the competition from Europe have prevented the mills of this country obtaining a fair or remunerative profit on their investments, notwithstanding many of them have owned their own timber.

The production of sulphite pulp has increased from 200 tons daily in 1890 to 4,500 tons daily in 1908 in the United States and now represents an investment of more than

\$25,000,000 in mills alone.

There is no sulphite pulp trust. The tariff on pulp has assumed a fictitious prominence in the minds of a few because of the unfounded talk about such a trust, and because of the mistaken supposition on the part of the public that there is a limitless supply of timber in Canada, and because of the further belief that to draw on this supposed immense supply will promote forest preservation in the United States, and for relief from the supposed exactions of the pulp trust it is proposed to remove the duty on pulp imported from Canada into the United States.

It is realized by few how low the duty now is on unbleached sulphite. The duty amounts to less than 8 per cent ad valorem against an average for the entire dutiable articles of about 40 per cent. Since it is a specific duty, it does not recognize the value of the importation. It is the lowest from a percentage standpoint on an article we most need and that is abundantly produced in this country. Canada has been shipping to this country freely under the tariff, and probably all she would have shipped if there had been received.

if there had been no tariff.

There has been great activity in the sulphite pulp development in Canada, and mills have been built apparently as freely as in the United States. It seems doubtful if the removal of the present low duty would make any particular change in the rate of development of the Canadian industry. Since Canadian sulphite importations constitute less than 10 per cent of our normal production, it is questioned if it would have any material effect on prices. If it does not, there would be no material benefit to the consumer of paper, and the Government would lose nearly \$500,000 a year revenue; and it is fair to assume that all or a part of the duty would be added to the value of Canadian stumpages, or after the elimination of the American mills to any increase in the value of their product.

The removal of the duty would have an effect in this country chiefly on the lower grades, which are, under normal conditions, difficult to dispose of and which determine the profitableness of the sulphite pulp industry and the feasibility of using forestry methods in lumbering by the utilization of forest products unfit for lumber and from which the lower grades of sulphites are produced. Canada's production of sulphite is principally of the lower grade.

To reduce the price of our low grades of pulp would prevent so close a utilization of the timber as is customery, now, and would prevent the day when conservative

the timber as is customary now, and would postpone the day when conservative lumbering along forestry lines will be practicable.

If the American consumer of sulphite pulp desires the forest preserved, we must follow the lumberman, using with him material unfit for lumber, and we must be protected on the lower grades of pulp produced from such material; otherwise it will become a loss and waste and a loss to the Government in the value of its own timber from a national standpoint of the removal of the duty

Forestry methods have begun to be adopted simply because the value of timber and the by-products of the forest are becoming high enough to warrant it. Americans have a large amount of money invested in timber. Canadians in British Columbia get their timber for nothing and pay merely a carrying charge, which amounts to only about 1 cent per 1,000 feet per annum. They pay for the timber when they cut it (50 cents a thousand), and therefore have no material investment.

British Columbia timber, so far as it is held by private parties, is held on definite terms and periods. There is no advance in price to the limit holder, as it becomes no

more valuable, except as a holder may sell his license to someone else.

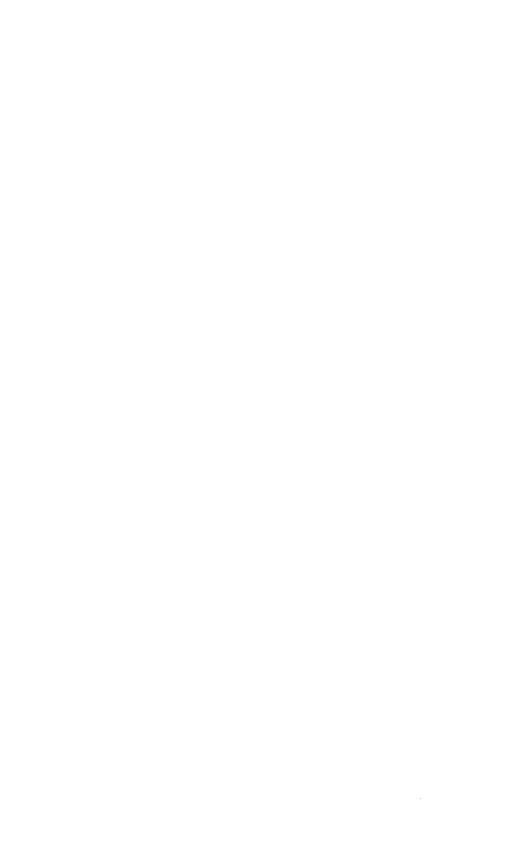
In Ontario, on the other hand, there are auction sales which fix the price of limits the government has to offer, and to whatever increased extent Canadian sulphite pulp is imported, to that degree will the industry of the United States, which is established on a certain basis of demand and a certain adjustment thereto to supply, be injured.

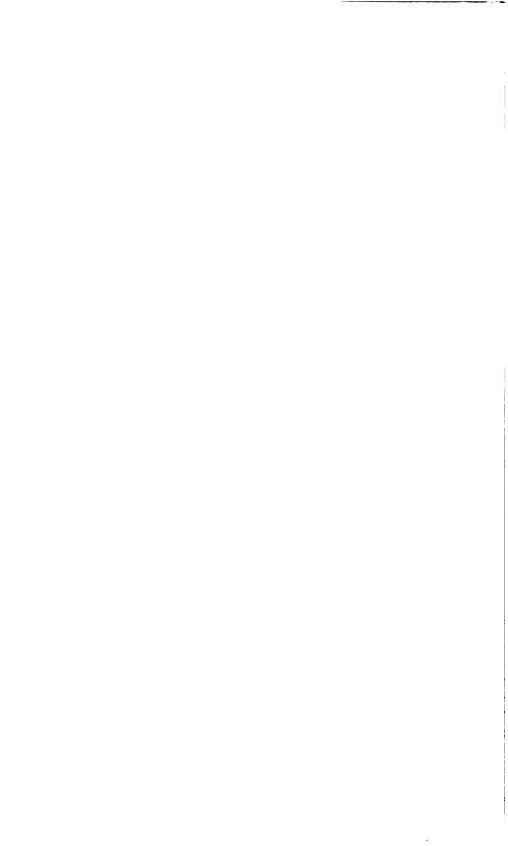
Further, it would limit the demand and infallibly lower the wages of the now well-

paid mill labor, which includes several thousand men.

To repeat, if the removal of the duty would not affect prices in the United States. it would do no one good, and would deprive the Government of needed revenue. It it would decrease prices, it would be only to an extent which would not materially benefit the American consumer, but would tend to the destruction instead of the preservation of our forests, would work serious damage to American manufacturers and imperil the investments of many of them, and put wages back to the standard of ten years ago, driving much of the labor to other fields of employment.

Certain of the Canadian provinces absolutely prohibit the exportation of pulp wood. etc. Such is the case at present with Ontario and British Columbia, the greatest two sources of supply of lumber for this country. Quebec gives a rebate on crown dues when material cut from crown lands is manufactured in the provinces. This is equivalent to 25 cents per cord export duty on pulp, but export is not prohibited. New Brunswick and Nova Scotia also permit exportation, and until the provinces of Ontario and British Columbia recede from their present position no consideration should be given Canadian interests, as the advantages to them accruing from a market for the disposing of their raw material would be greater than the advantage of free sulphite pulp to our consumers.









ber of pictures which may illustrate what I want to say better than

I can do it by writing a long letter.

It is obvious that in the reproduction of saw logs a longer period than twenty or thirty years must elapse after planting and after coppicing.

As I understand it, your committee is interested only in raw

material for the pulp and paper industry.

Saw logs, generally speaking, can not be reproduced in less than

eighty years.

Logs of sufficient diameter produced more rapidly are faulty, necessarily, by being fast-grown, which means tough of fiber, and by being branchy, which means full of holes and defects.

Species of light specific gravity (white pine and spruce) are grown much faster than species of heavy specific gravity (white oak, hickory.

maple, beech).

All of this I could illustrate to you more readily in an excursion through the woods of the Biltmore estate. After all, information relative to forestry, as you well know from your own experience in the northern woods, can not be obtained from books or from letters so well as it can be obtained from the woods.

I am sorry, indeed, that I shall not have a chance to show you the

object lessons of the Biltmore estate, for the time being.

From your letter I take it that your committee is confronted by the question, "Shall forest reproduction be done by the Government, or shall it be left to the efforts of private interests?"

In my opinion both agencies should be put into action, and that

without any delay.

Private individuals will practice forestry of a conservative nature just as soon as it will pay them so to do, or just as soon as they are sure of finding better dividends in forest conservation than in forest destruction.

The American forest owners belong to a class of men whom I would

call particularly clear-headed business men.

If these men have considered it unwise to practice conservative lumbering heretofore, we do not require any further proof of the fact that forest conservation is not as remunerative as forest destruction, up to the present time.

Whether forest conservation be done by the Government directly. or is obtained at the expense of the people otherwise, that is a ques-

tion of expediency merely.

Forestry will flourish as soon as the people are willing to foot the bill for (1) protection of the forest from fires, (2) reduction of the taxes encumbering a second growth, (3) high-priced lumber and high-priced cord wood.

I am, my dear Mr. Mann,

Your very obedient servant,

C. A. Schenck.

JANUARY 11, 1909.

Hon. James R. Mann,

House of Representatives, Washington, D. C.

My DEAR MR. MANN: Your letter of January 4 contains the following question: "Can spruce forests, under existing state laws, as to taxes and present fire protection, be profitably reproduced by private individuals or industrial corporations for use in business?"

To this question I am obliged to reply by an emphatic "no."

Reproduction can be profitable only when it is safe. As the matter now stands, the danger from fire under present state laws is so considerable as to make investments in second-growth spruce partic-

ularly risky.

A risky investment must promise very high returns to find favor with the investor. Dividends of 10 or 20 per cent can not be expected, in my humble opinion, from forestal investments under any circumstances, and a dividend of from 4 to 8 per cent is out of keeping with the risk taken by the man investing his dollars and cents in second-growth spruce forests.

The influence of taxation as an expense in forestry is such as to

discourage the investor in second growth.

Financially a tax of 4 cents per acre is not so bad, provided that the price of spruce stumpage is as high in 1930 in this country as it is to-day in the old. In the German Black Forest and in the Bavarian Forest the price of spruce stumpage as used at the pulp mills is approximately \$12 a cord.

You can imagine that the woods in question, producing per acre per annum a cord of spruce wood, can readily stand an annual tax of as

much as 20 cents to the acre.

The investment in second growth, or, rather, the investment by which a second growth may be produced, be it by planting or be it from self-sown seed, is approximately, in my opinion, the sum of \$10 or \$12 an acre. By this investment can be secured a complete and dense second growth, growing at the rate of 1 cord per annum, without fail, barring fires.

If the price of stumpage remains as low as it is to-day, it will not be profitable to secure a second growth when removing the first growth; if the price of second growth runs up in the next thirty years to \$10 a cord, then, and in that case, the prospects for American forestry are

good, barring fires.

It is quite true that the problem of forest fires is identical with the

problem of American forestry.

The existing state laws are entirely insufficient to warrant the safety of sylvicultural investments. The owners of cut-over woodlands show little interest in legislation safeguarding second growth, because stumpage values are low in this country and the certainty has not yet dawned upon the minds of most lumbermen or owners of cut-over lands that the prices of stumpage in days to come must run as high in this country as they are now running in Germany or France.

If Congress prevents by suitable custom duties the importation of wood and lumber from the outside, the possibility of increased stumpage values will present itself to the owners of cut-over woodlands; such owners will be eager to have their woodlands protected from fires, and will be more eager than they are now to invest a few dollars per acre for the production of second growth.

Here at Biltmore, in the planted forests we have been fairly safe from forest fires so far. I am quite sure, however, that this condition

will not continue.

The natural second growth obtained in primeval woods safe from fires has suffered badly, here as well as elsewhere, and many an excellent second growth of chestnut and poplar raised by me during the last fifteen years has been utterly destroyed, with little chance for another second growth left, because of forest fires.

The profitable reproduction of stumpage depends, naturally, on

stumpage prices.

As long as stumpage can be imported into New York from Canada as cheaply as it can be transferred from Wisconsin, and cheaper than it can be transferred from the southern Appalachian region into New York, the chances for profit obtainable from sylvic investments will be slim.

Canada will be able, I should judge, to supply us for a number of years with spruce—say for thirty years. After a lapse of thirty years the Canadian spruce woods and our own spruce woods will be exhausted, and there will be presented a condition of affairs as deplorable as that which now confronts Italy and Spain with reference to the forests.

To me it seems that the question of cheap paper is less important to the American commonwealth than the problem of expensive

stumpage.

If stumpage is cheap, no one can afford to produce it, neither here nor in Germany. If we want forestry we, as a people, through Con-

gress, have to see to it that forestry is a good investment.

It will be a good investment if Congress enacts proper laws tending to secure for the owner of second growth protection by a federal forest police (the federal marshal and his deputies can act as such police, and no new organization is required).

As regards the cheapness of paper, I, for one, am in favor of expensive printing paper, particularly for the reason that 90 per cent of the papers contain "stuff" that is not fit to print.

Many an advertisement covering a whole page contains reading matter of six lines only; many a page is devoted to descriptions of murders and other obnoxious matter which can not be considered of educational value, and it should be cut down, by all means.

If printing paper is more expensive, education by the newspapers

will be fostered rather than checked.

Unless Congress takes a firm stand and makes private forestry remunerative, there will be no private forestry; 500,000,000 acres of barren lands, formerly productive of forests, within fifty years.

Have your choice.

Have cheap paper for another thirty years, and after that time very expensive paper, and vast areas of unproductive land.

Yours for high prices of paper, pulp, and spruce, and with deep

respect,

C. A. SCHENCK.

#### INFORMATION CONCERNING PULP AND PAPER MANUFACTURING INDUS-TRY IN UNITED STATES.

The CHAIRMAN. Referring to the following letter and tables compiled by the Census Office, which we will publish now for information, I will say that many new schedules have been received since this tabulation, and new and more complete tables are being prepared by experts under the direction of the committee.

The information in the schedules is received in confidence, and no

facts relating to any particular mill will be disclosed in any way.

DEPARTMENT OF COMMERCE AND LABOR, BUREAU OF THE CENSUS, Washington, December 1, 1908.

Hon. James R. Mann.

Chairman Select Committee on

Pulp and Paper Investigation, House of Representatives, Washington, D. C.

SIR: I respectfully transmit herewith tabulations made in this bureau of the replies to the schedule inquiries addressed by your com-

mittee to manufacturers of pulp and paper.

About 900 schedules relative to the manufacture of pulp and paper were mailed, and approximately 450 replies were received, but only 188 of these, covering the operations of 235 plants, have been tabulated in the tables presented herewith. A considerable number of the schedules of the paper manufacturers were thrown out because their operations did not fall within the scope of the investigation. Especially is this true of those returning as raw materials rags, old paper, straw, hemp, cotton waste, and the like.

It is thus seen that the results obtained by the committee are incomplete and not comparable with census statistics. To illustrate the impracticability of comparing the statistics of these tables with those of the census, it may be stated that the capital returned by the establishments represented in the tabulations herewith amounts to \$147,757,670, whereas the total capital invested in the manufacture of paper and wood pulp during the calendar year 1904, as shown by the census figures, was \$277,444,471. The total cost of materials returned by the establishments represented in the tabulations made from the returns to the committee is \$49,183,106, compared with \$111,251,478 for the entire industry as returned at the census of 1905. The value of products returned by the establishments represented in the tabulations herewith is \$82,716,044, compared with \$188,715,189 for the entire industry as shown at the 1905 census. In addition to this there has doubtless been an increase during the last three years in the number of establishments engaged in this manufacture, and hence it is impracticable to state how nearly the present condition of the entire industry is revealed by these imperfect statistics.

Table 1.—Number of establishments returned; capital invested; salaried employees and wage-earners; and rent and taxes; by States, 1907.

Table 2.—Number of establishments returned; cost of materials used, according

to kind, quantity, and value; by States, 1907.

Table 3—Number of establishments returned, and quantity and value of manufactured products; by States, 1907.

Table 4.—Cost of manufacturing product; percentage represented by wages, by

materials, and by all other expenses of production; 1907. Table 5.—Comparative monthly average selling prices per ton of news-print paper;

by States, 1906 and 1907.

Table 6.—Comparative monthly average selling prices per ton of several kinds of

paper; by States, 1906 and 1907.

Table 7.—Number of plants reported; yearly capacity of the mills for the manufacture of paper and pulp; and the average number of days operated in 1907.

Hoping that the material transmitted may prove of service, I am, Respectfully.

S. N. D. North, Director.

TABLE 1.—Number of establishments returned, capital invested, salaried employees and wage-earners, rents, and taxes, by States, 1907.

	Num-	<b>!</b> !	Sala	ried emplo	yees.	V	Vagerearner	5.	
State.	ber of estab- lish ments.	Capital (amount).	Num- ber.				Wages.	Average.	Rent.
Total	188	\$147,757,670	1,413	\$2,757,849	\$1,952	26, 409	\$13,567,620	\$514	— \$7,680.∓
Connecticut	6	830, 627	22	33, 378	1,517	238	134, 025	563	(9.06
Illinois	4			18, 677	983			581	3∗ 3≠
Indiana	3	1,392,970		21,909		172		527	77. 9
Maine	5	3,012,144	30	71,743	2, 391	791	417, 264,	528	196.5
Massachusetts		60, 051, 195		819,617		8,302		484	1.80 -
Michigan	14	11,148,272		238, 453				491	75-L
Minnesota.	1 3	2,365,034		32,393				591	153, 13
New Hampshire	4	986, 853		26,248		207	105,828	511	44.
New Jersey	: 8		37	126, 172	3,410	566	307,744	544	147.30
New York	45			658,076		6,249		559	2,265.
Ohio. Pennsylvania Vermont	9	1, 496, 770		39, 460		397		550	
Pennsylvania	20			248, 821			1,289,531	503	
Vermont	10			55, 806				504	€2 €
Virginia	! 3	556,982		32, 798	1,822			422	81.
West Virginia Wisconsin	3	216,382		14, 450				<b>53</b> 2	35.
Wisconsin	23			260, 346				496	
All other States a	. 7	2, 258, 458	35	59, 442	1,698	392	218, 228	557	138.75

a Includes Maryland, with two establishments; Delaware, Missouri, North Carolina, South Carolina, and Washington, with one establishment each.

TABLE 2.—Number of establishments returned, cost of materials used, expressed by kind, quantity, and value, by States, 1907.

	Num	Cost of materials used during the year.											
	Num- ber of estab-	Wo	ood for pulp	Ground-wood fiber.									
	lish- ments.	Cords.	Value.	Average price (per cord).	Tons.	Value.	Average price (pri ton).						
Total	188	1,021,383	\$7,969,012	\$7.80	111,497	\$2,378,011	<b>2</b> 21.33						
Connecticut	6				4,518	79,065	17.50						
Illinois	3	200	1,500	7.50	1.248	29.941	23, 11						
Maine	5	85,020	512, 250		7,854	137,300							
Massachusetts	21	22, 222	166, 276	7.48	10,130	214, 099	21.16						
Michigan	14	99, 441	578, 555		11,572	269, 247	23, 23 25, 77						
Minnesota	3	29,601	245, 353	8. 29	1,872	44, 505	25						
New Hampshire	4	1,173	4,861	4.14	641	14,566							
New Jersey	8.				421	13,044	30 %						
New York	45	484,705	3,939,492	8. 13	22, 224	454, 868	20.47						
Pennsylvania	. y.		757 017	8.32	1,300 619	31,150							
Vermont	20 10	91,049	757,817 143,836		6,248	15, 320 126, 506							
Virginia		15,043	140,000	9. 30	0, 230	120, 300	20.20						
West Virginia		· · · · · · · · · · · · · · · · · · ·			;								
Wisconsin	23	173, 244	1,513,278	8, 73	32,090	714,587	22.1						
All other States a	7	19,685	105, 788		10,760	233,813							

a Includes Maryland, with two establishments; Delaware, Missouri, North Carolina, South Carolina, and Washington, with one establishment each.

TABLE 2.—Number of establishments returned, cost of materials used, expressed by kind, quantity, and value, by States, 1907—Continued.

	Num- ber of estab-		Sulphit			sed duri		Soda.	
	lish- ments.	Tons.	Valu		Averag price (per ton	Ton	8.	Value.	A verage price (per ton)
Total	188	180, 367	7 \$8,542,	565	\$47. 3	6 49,	832	\$2,159,01	6 \$43.3
Connecticut	6	1,418	5 60.	620	42. 8	4	64	2.87	6 44.9
Ilinois	4	46	1,	869	40.6	3			
ndiana	3	1,71	1 80,	926	47. 2		<b>.</b>		. <b></b>
Maine	5 21	738	25,	508	34. 5 53. 2			1 000 69	43. 1
Michigan		65, 546 15, 058	3, 488, 616.		40. 9°		903 375	1,288,63 381,24	
Minnesota	3	4,826	230,	205	47. 7			301,22	12
New Hampshire	4	3,302	151,	270	45. 8		770	162, 18	6 43. (#
New Jersey		502	2 22,	277	44. 3				
New York	45	29,997			40. 7		105	18,34	8 45.3
Ohio Pennsylvania	9 20	4,078		667	43. 8: 48. 9:		132 393	6,20 171,68	3 46.99 7 44.10
Vermont		6, <b>49</b> 2 6, 133	247,	482	40. 3		26	1,12	4 43.2
Virginia		139	) 6.	435	46. 2		15	39,53	
est Virginia	3	70	2.	842	40. 6				
Wisconsin	23 7	37,057 3,257	1,737, 152.		46. 90 46. 7		801 88	82,24° 4,92°	
	Num-		Cost	of ma	terials u				
	Num-					sea aurii	ng t	he year.	!
	ber of		All other.				-   	·	
		Tons.		Ave		Fuel (value).	-   	Other ma- terials (value).	Total cost (amount).
Total	ber of estab- lish-	Tons.	All other.	Ave proper	erage rice ton).	Fuel (value).	-	Other ma- terials	
	ber of estab- lish- ments.		All other.	Ave proper	erage rice ton).	Fuel (value). 5,400,930	5 82	Other materials (value).	(amount).
Connecticut	ber of establishments.		All other.	Ave property (per	erage rice ton).	Fuel (value). 5,400,930	5 82	Other materials (value).	(amount). \$49,183,10 406,21
Connecticut	ber of establishments.		All other.  Value.  \$719,856	Ave property (per	erage rice ton).	Fuel (value). 5, 400, 938 59, 164 34, 767 43, 924	5 82	Other materials (value).	(amount). \$49,183,10 406,21: 272,62: 369,85
Connecticut	ber of establishments.	31,489	All other.  Value.  \$719,856	Ave pi (per	erage doe ton).	Fuel (value). 5, 400, 938 59, 164 34, 763 43, 924 222, 612	\$5 \$2	Other ma- terials (value). 12,013,711 204,487 235,996 213,566 382,972	(amount). \$49,183,10 406,21: 272,62: 369,85
Connecticut Illinois Indiana Maine Massachusetts	ber of establishments.  188  6 4 3 5 21	31,489	Value. \$719,856	Ave pi	erage rice ton).	Fuel (value).  5, 400, 936  59, 164 34, 767 43, 922 222, 612 1, 159, 389	5 \$5	Other ma- terials (value). 22,013,711 204,487 235,996 213,566 323,972 7,983,990	406, 21: 272, 62: 369, 85: 1, 280, 64: 14, 318, 01:
Connecticut	ber of establishments.  188  6 4 3 5 21 14	31,489	All other.  Value.  \$719,856	Ave pi	erage doe ton).	Fuel (value). 55, 400, 936 59, 164 34, 765 43, 922 2222, 611 1, 159, 386 656, 825	5 \$5	Other materials (value).  22,013,711  204,487 235,986 213,566 382,972 7,983,990 1,564,555	406,21 272,62 309,85 1,280,64 14,318,64 14,583,42
Connecticut Illinois Indiana Maine Massachusetts Michigan Minnesota New Hampshire	ber of establishments.	31,489 	Value. \$719,856	Ave pi	erage rice ton).	Fuel (value).  5, 400, 936  59, 164 34, 767 43, 922 222, 612 1, 159, 389	5 \$5	Other materials (value).  22,013,711  204,487 235,986 213,566 382,972 7,983,990 1,564,555 106,385	\$49,183,10 406,21 272,62 3,29,65 1,38,01 4,583,42 688,22
Connecticut Illinois Indiana Maine Massachusetts Michigan Michigan Minnesota New Hampshire New Jersey	ber of establishments.  188  6 4 3 5 21 14 3 4 8	31, 489 299 23, 333	Value. \$719,856  17,308 516,041	Ave pi (per	erage rice ton).  22.86 §	Fuel (value).  59, 164 34, 767 43, 922 222, 612 1, 159, 387 656, 822 644, 032 125, 668	5 \$5	Other ma- terials (value). 22,013,711 204,487 235,986 213,566 382,972 7,983,990 1,564,555 106,888 203,412 756,163	(amount). \$49,183,10 406,21 272,62 309,85 1,290,64 14,318,01 4,583,42 580,32 580,32 580,32
Connecticut Illinois Indiana Maine Massachusetts Michigan Minnesota New Hampshire New Jersey New Jersey New York	ber of establishments.  188  6 4 3 5 21 14 3 4 8 8 6 45	31,489 	Value. \$719,856	Ave pi (per	erage rice ton).  22.86 §	Fuel (value).  55, 400, 933  59, 164 34, 765 43, 922 222, 612 1, 159, 389 656, 822 61, 766 61, 766 14, 030 125, 668 1, 491, 495	5 \$5	D ther materials (value).  12,013,711  204,487 235,986 213,566 213,566 15,564,555 106,388 203,412 756,163 4,562,110	\$49,183,10 406,21 272,62 369,85 1,280,63 14,318,01 4,583,42 580,32 962,00 11,750,11
Connecticut Illinois Indiana Maine Massachusetts Michigan Minnesota New Hampshire New Jersey New York Ohio	ber of establishments.  188  6 4 3 5 21 14 8 8 45 9	299 23,333 1,150 3,808	Value. \$719,856  17,308 516,041  44,850 62,231	Ave properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properti	erage rice ton).  22. 86 \$	Fuel (value).  5, 400, 933  59, 16-34, 767 43, 92-2222, 611 1, 159, 338 656, 822 61, 766 44, 033 125, 668 1, 491, 451	\$5 \$5	Other materials (value).  22,013,711  204,487 235,996 213,566 382,972 7,983,990 1,564,555 1,66,388 203,412 756,183 4,562,110 712,793	(amount).  \$49,183,10  406,21 272,62 309,85 1,280,64 14,318,01 4,583,42 580,32 580,32 590,20 11,750,11 1,031,22
Connecticut Illinois Indiana Maine Massachusetts Michigan Minnesota New Hampshire New Jersey New York Ohio	ber of establishments.  188  6 4 3 5 21 14 8 8 45 9	31, 489 299 23, 333	Value. \$719,856  17,308 516,041	Ave properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properti	erage rice ton).  22.86 §	Fuel (value).  5, 400, 936  59, 164 34, 767 43, 921 222, 611 1, 159, 386 656, 826 61, 766 44, 037 125, 648 1, 451, 456 102, 411 579, 586	\$5	Other materials (value).  22,013,711  204,487 235,986 213,566 382,972 7,983,990 1,564,555 106,388 203,412 756,163 4,562,110 712,793 2,686,084	\$49,183,10 406,21 272,62 399,85 1,290,64 14,318,01 4,883,42 580,32 982,03 11,750,11 1,031,22 4,558,19
Connecticut Illinols Indiana Malne Massachusetts Michigan Minnesota New Hampshire New Jersey New York Ohio Pennsylvania Vermont	ber of estab- lish- ments.  188  6 4  3 3  5 21  14 4  8 8  45  9 20  10	299 23,333 1,150 3,808	Value. \$719,856  17,308 516,041  44,850 62,231	Ave properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properti	erage rice ton).  22. 86 \$	Fuel (value).  59, 164 34, 767 43, 922 222, 612 1, 159, 387 656, 822 61, 766 44, 033 125, 688 1, 491, 456 102, 411 579, 560 38, 248	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Other materials (value).  204, 487 225, 996 213, 586 213, 586 213, 586 382, 972 7, 983, 990 1, 564, 555 106, 388 203, 412 756, 183 4, 562, 110 712, 793 2, 686, 684 106, 758	(amount).  \$49,183,10  406,21 272,62 369,85 1,280,64 14,318,01 4,583,42 688,22 580,32 962,00 1,750,131,12 4,588,19,2663,95
Connecticut Illinols Indiana Maine Massachusetts Michigan Minnesota New Hampshire New Jersey New York Ohlo Pennsylvania Vermont Virginia West Virginia	ber of establishments.  188  6 4 3 5 21 14 3 4 4 8 9 20 10 3 3	31, 489 299 23, 333 1, 150 3, 808 657	Value. \$719,856 17,308 516,041 44,850 62,231 30,215	Avepro (per	erage rice ton).  22. 86 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Fuel (value).  59, 164 34, 767 43, 922 222, 612 1, 159, 368 656, 822 61, 766 44, 033 125, 668 1, 491, 456 138, 244 111, 400 38, 244 111, 400 30, 934	5 \$2	Other materials (value).  204, 487 225, 986 213, 596 332, 972 756, 163 4, 562, 106, 388 106, 712, 793 2, 686, 684, 106, 758 158, 466 303, 758	\$49,183,10 406,21 272,62 399,85 1,290,64 14,318,01 4,883,42 580,32 982,03 11,750,11 1,031,22 4,558,19
Total.  Connecticut Illinois. Indiana Maine. Massachusetts. Michigan Minnesota. New Hampshire. New Jersey. New York. Ohio. Pennsylvania Vermont Virginia. West Virginia Wisconsin. All other States a	ber of establishments.  188  6 4 3 5 21 14 3 4 4 8 9 20 10 3 3	299 23,333 1,150 3,808	Value. \$719,856  17,308 516,041  44,850 62,231	Avepro (per	erage rice ton).  22. 86 \$	Fuel (value).  5, 400, 938  59, 164 34, 767 43, 922 222, 611 1, 159, 386 656, 822 61, 766 125, 698 14, 037 125, 698 17, 402, 411 579, 566 38, 246 11, 400	5 \$2	Other materials (value).  22,013,711  204,487 235,986 213,566 382,972 7,983,990 1,564,555 106,388 203,412 756,163 4,562,110 712,793 2,686,084	(amount).  \$49,183,10  406,21 272,62 309,85 1,280,64 14,318,01 4,583,42 580,32 580,32 580,30 11,750,11 1,031,12 4,558,19 663,955 215,53

a Includes Maryland, with two establishments; Delaware, Missouri, North Carolina, South Carolina, and Washington, with one establishment each.

Table 3.—Number of establishments returned, quantity and value of manufactured products, by States, 1907.

		•	1		Qu	antity	and v	alue	of m	nufac	tured p	produ	icts.
			ļ	Num-	1	•		Ne	ws pe	per.			-
				ber of estab- lish-		In r	olls.				In sheets.		
		<b>m</b> e    -			Tons.	. Val	ue.	Average pric (per ton)	e 1	Γons.	Valu	ie.	Aver- age price (per ton).
Total				188	8 126,97	55,30	0, 508	\$41.	75	53, 550	\$2,271	,019	 \$42. 4
onnecticut		<b></b>		(	6 2,03	85 8	5,877	42.	20				
llinois ndiana					<b></b>		••••	• • • • •				• • • •	• • • • • •
faine		<b></b>		į	3						1	· · · · ·	
lassachusetts				21	1		8,862						· · · · · ·
linnesota				2		סע וסע	9, 981 .	94.	27,	4, 113 789	199	141	48.4
lew Hampshire		· · · · · · · · ·	}	+		52 9	7,919	<b>52</b> .	87		41,	,693	<b>32.</b> 8
lew Jerseylew York				45	3	8 1,57	3, 193	39.	42	31,701	1, 254	495	39.
hio				,	9		3,867		17	465	1	877	. <b></b>
ennsylvaina ermont				10			• • • • • • •		{		20,		
irginia			1	3	3				¦			' .	
					9								
Wisconsin		· • • • • • • • • • • • • • • • • • • •	;	22	33,31	1,33	5,826	40.	09	16, 482	749,	813	45.
Visconsin	• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	:  :	22		7 1,33 19 59	5, 826 9, 383	40. 47.	09 50	16, 482	749,	813	45. (
Wisconsin					33,31	19 59	9, 383	47.	50		749,	813	45. (
Wisconsin					3 33,31 7 12,61	19 59	9, 383	47.	50		749,	813	45. (
WisconsinAll other States	Num- ber of	<del></del> _	Quan	tity and	3 33,31 7 12,61 d value	of man	9, 383	47.	prodi		749,		rotal
V Visconsin	Num-	<del></del> _	Quan	tity and arieties er.	3 33,31 7 12,61 d value	of man	9, 383 ufacti	47.	produ	acts.	ll other	v	
Wisconsin	Num- ber of estab-	<del></del> _	Quan	tity and arieties er.	3 33,317 12,61 d value	of man	9, 383 ufacti	47.	produ	ets.	ll other	v	Fotal
Vermont	Num- ber of estab- lish-	<del></del> _	Quan	tity and arieties er.	3 33,317 12,61 d value of Average price	of man	9,383	47.	produsold.	Acts.	ll other	v	Fotal
Wisconsin	Num- ber of estab- lish-	All o	Quan	arieties er.	3 33,317 12,61 d value	of man	9,383	ared p	produ	A pr	ll other	v	Fotal
Visconsin	Num- ber of estab- lish- ments.	All o	Quan	arieties er.	d value of	of man Pulp Tons.	9,383 ufactu and f	ared places	Ave ag pric (pe ton	A proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the proper of the	li other	an	Fotal alue, nount.
Total	Number of establishments.	All of Tons.	Quan other v pap Valu	arieties er.	3 33,317 12,61 7 12,61 d value of Average price (per ton).	of man Pulp Tons.	9,383 ufactu and f Val	47.	Ave ag pric (pe ton	Apr-Bor-Bor).	ll other oducts value.	3 san	Fotal alue. 200111.
Total	Number of establishments.	All c Tons.  870, 900 14, 461 14, 561	Quan  other v  pap  Valu  \$66, 31	arieties er. 1,978 1,978 1,978 1,900 0,488	3 33,317 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617 12,617	of man Pulp Tons.	9,383 ufactu and f Val	47.	Ave ag pric (pe ton	Apr-Bor-Bor).	li other oducts value.	1 san	Total alue. rount. 716,04
Total	Number of establishments.	All cons.  870, 900 14, 461 14, 561 18, 349 24, 940	Quan  other v pap  Vali  \$66, 31:  588 388 655 1, 166	arieties er.  1,978  1,978  8,190  9,488  3,382  3,330  3,330	3 33,317 12,61 7 12,61 d value of Aver- age price (per ton). 376.14 40.54.26.13 35.61.46.53	of man Pulp Tons.	9,383 ufacto and f Val	47.	Ave ag price (pe ton	Apr-Bor-Bor).	ll other roducts value. ,853,000	an 1 \$82,	716, 04 672, 06 653, 35 238, 35
Total	Number of establishments.	All c Tons. 870, 900 14, 461 18, 349 24, 940 208, 034	Quan other v pap  Valu \$66, 31  58 65 1, 166 23, 61	tity and arieties er. 1,978 8,190 9,488 8,3,382 9,330 7,852	3 33,317 12,61 d value of	of man Pulp Tons. 202, 702	9,383 ufactu and f Val	47.	Ave ag prid (pot ton	A Present	ll other roducts value.	an \$82,	716, 04 672, 06 653, 38 238, 53
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Total	Number of establishments.  188  64 43 55 21 144 33 44 35	All of Tons.  870, 900 14, 461 18, 349 24, 940 208, 334 107, 420 7, 354 6, 450 202, 987	Quan  Vali  \$66, 31  \$66, 31  58  38  65  1, 16  23, 61  6, 97  72  72  13, 48	tity and arieties er. 1,978 8,190 9,488 3,382 0,330 7,852 4,764 0,866 0,179 1,598	3 33,317 12,61 d value of 4 value of 4 value of 4 value 40.54 35.61 46.53 113.53 64.93 98.02 99.02 99.95 66.42	Pulp Tons.  202, 702 28, 638 6, 851 3, 925	Val.  \$6,970	47.  ured )  liber :  ue.  3, 190  1, 719	Ave ag price ton	Dets.  A pi	11 other oducts value.  853,001  96,498  2,211 71,761  245,298	v 382, 3 23, 7, 1, 5 1, 9 20, 20, 20	716, 04 672, 02 653, 35 620, 00 928, 64 980, 4 825, 1, 0
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Total	Number of setablishments.  188 64 35 21 14 34 49 200	7, 354 6, 450 208, 034 107, 420 7, 354 6, 450 202, 987 208, 670 12, 868	Quan Valu 366, 31 589 396 65, 1, 166 23, 617 722 7, 508	tity and arieties er. 1,978	3 33,317 12,613 12,614 14 12,614 14 15 14 15 15 16 14 15 16 15 16 16 16 16 16 16 16 16 16 16 16 16 16	9 59 59 638 638 638 648 648 648 648 648 648 648 648 648 64	9, 383 ufactu and f Val \$6, 970 1, 073 81 3, 760	47.  ured )  liber :  ue.  3, 190  1, 719	produced as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a seco	A property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of	11 other oducts value.  853,001  96,498  2,211 71,761  245,298	an 23, 7, 1, 1, 20, 1, 1, 20, 1, 1, 20, 1, 1, 20, 1, 20, 1, 20, 1, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	716, 04 672, 06 476, 38 238, 52 238, 52 238, 52 236, 24 236, 64 825, 44 825, 44 825, 21 077, 00 530, 830 675, 00 530, 830 675, 00 530, 830
Total	Number of setablishments.  188 6 4 3 5 21 14 3 4 9 20 10	All of Tons.  870, 900 14, 461 14, 561 18, 349 20, 9, 034 107, 420 7, 354 6, 450 202, 987 26, 467 106, 700 12, 888 5, 348	Quan bther v pap \$66, 31 58 38, 38, 61 6, 97 72, 50 77, 50 77, 50 84, 48	tity and arieties er. 1,978 8,190 0,488 3,380 7,852 4,764 1,986 0,179 1,898 9,040 8,422 1,093	3 33,317 12,613 12,614 12,614 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615 14,615	of man Pulp Tons. 202, 702 28, 638 6, 851 3, 925	9, 383 ufactu and f Val \$6, 970 1, 073 81 3, 760	47. 47. 47. 47. 47. 47. 47. 47. 47. 47.	produced as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a second as a seco	A 43 \$1	11 other oducts value.  96, 498 2, 211 71, 761 245, 299 133, 856 1, 600	an 23, 7, 1, 1, 20, 1, 1, 20, 1, 1, 20, 1, 1, 20, 1, 20, 1, 20, 1, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	716, 04 672, 06 653, 35 620, 09 928, 662, 36 620, 07 928, 67 980, 48 980, 48 980, 48 980, 48 980, 41 980, 41 980, 41
	Num-ber of establishments.  188  64 3 3 5 5 21 14 3 4 4 9 9 20 0 10 13 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	870, 900 14, 461 14, 561 18, 349 24, 940 208, 034 107, 420 202, 987 26, 457 106, 700 12, 868 5, 340 5, 631 94, 051	Quan bther v pap Valu \$66,31 588 1,164 23,61 6,97 72 72 75 75 75 84 54 54 6,45	tity and arieties er. 1,978	3 33,317 12,613 12,614 14 12,614 14 15 14 15 15 16 14 15 16 15 16 16 16 16 16 16 16 16 16 16 16 16 16	9 59 59 638 638 638 648 648 648 648 648 648 648 648 648 64	val. Val. Val. 1,078	47.  liber:  ue.  3,190 3,280 7,7637 2,051 2,051	334 334 335 336 337 337 337 337 337 337 337 337 337	A 43 \$1	11 other oducts value.  96, 498 2, 211 71, 761 245, 299 133, 856 1, 600	200 1 1 8 1 1 9 8 1 1 9 8 1 1 9 8 1 1 9 8 1 1 9 8 1 1 9 8 1 1 1 1	716, 04 672, 06 476, 98 238, 53 620, 06 236, 44 825, 44 211, 08

 $[\]it a$  Includes Maryland with two establishments; Delaware, Missouri, North Carolina, South Carolina, and Washington with one establishment each.

TABLE 4.—Total cost of manufacturing paper and pulp, per cent of total cost represented by wages, materials, and other expenses.

			C	ost of p	production re	presen	ted by-	
State.	lish- ments reported	of manufac- turing	Wages	Materia	is.	All other expenses		
	(number).	(amount).	Amount.	Per cent.	Amount.	Per cent.	Amount.	Per cent.
Total	188	<b>\$73, 200, 44</b> 6	\$13,567,620	18. 5	\$49, 183, 106	67. 2	\$10,449,720	14.
ConnecticutIllinois	4	642,679 417,165	134,025 89,500	21.5	406, 212 272, 622	63. 2 65. 8	102, 442 55, 043	15.1 13.
Indiana	5	560,994 1,965,858 21,024,729	90, 639 417, 264 4, 019, 519	16. 2 21. 2 19. 1	369,857 1,280,648 14,318,018	65. 9 65. 2 68. 1	100, 498 267, 946 2, 687, 192	17.9 13.0
Michigan	14	6,872,690 1,114,436	1,290,002 240,625	18. 7 21. 6	4, 583, 424 688, 220	66. 7 61. 7	999, 264 185, 591	14. ( 16.
New Hampshire New Jersey New York	8	757, 179 1,543,310 18,173,526	105,828 307,744 3,493,208	14.0 20.0 19.2	580,325 962,002 11,750,111	76.6 62.3 64.7	71,026 273,564 2,930,207	9.4 17.1
Ohio Pennsylvania	20	1,390,902 7,002,443	218, 184 1, 289, 531	15. 6 18. 4	1,031,224 4,558,195	74. 2 65. 1	141,494 1,154,717	10. : 16. :
Vermont Virginia	10	905,411 391,421	133,520 61,225	14.8 15.7	663, 952 215, 838	73.3 55.1	107,939 114,358	11.9 29.
West Virginia Wisconsin	23	453,290 8,643,675 1,340,738	62,797 1,395,781 218,228	13.9 16.1 16.3	337, 534 6, 240, 593 924, 331	74. 4 72. 2 68. 9	52,959 1,007,301 198,179	11. 11. 14.

TABLE 5.—Comparative monthly average selling prices, per ton, of news-print paper, by States, 1906 and 1907.

					Av	erage ]	prices	per ton	(2.000	pound	s)		
State.	Year.		Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Connecticut	1907 1906							\$44.00 40.00					
Michigan	1907 1906	37. 79 35. 11	36.95		35. 66	37. 22	39. 44	40. 40	41.03		42.53	43. 31	42.58
Minnesota	1907 1906	37. 15	37.00 37.30	37. 40	37.60	37.60	39. 20	39. 29	39. 49		42.10	43.50	44. 40
New Hampshire	1907 1906	65. 76 58. 36	61.30	58. 40 60. 56	60.00	61.30	61.80	59.60 61.30	59.90	59.60	61, 12	60.00	59.30
New York	1907 1906	38. 88 35. 61		41. 46 36. 74					43. 75	44.10	45. 31	44.85	
Pennsylvania	1907 1906	52.00 52.00		52.00 52.00				55.00 52.00			56.00 52.00		
Wisconsin	1907 1906	47. 92 47. 16	49. 51	49. 42 48. 08	51.03	51. 27	51. 51		52. 52	53.55	53.81	53. 52 48. 23	53. 95

The statistics shown in the table were computed from reports of establishments which produced in 1907, 126,970 tons of news print, in rolls, valued at \$5,300,508, or an average of \$41.75 per ton, and 53,550 tons in sheets, valued at \$2,271,019, or an average of \$42.41 per ton. Computed on the combined figures the average price is \$41.94. According to the census there were produced in the calendar year 1904, 840,802 tons, in rolls, valued at \$32,763,308, or an average of \$38.97 per ton, and 72,020 tons in sheet, valued at \$3,143.152, or an average of \$43.64 per ton. It thus appears that the quantity of news print represented in Table 5 for 1907 is 180,520 tons, or about 20 per cent of the products reported for the census of 1905. The average price per ton of the averages, as returned by the manufacturers for the month of January, 1907, is \$46.21, compared with \$49.33 for December of the same year. The comparative prices for 1906 are \$43.59 for January and \$44.85 for December.

TABLE 6.—Comparative monthly average selling prices per ton of several kinds of paper, 1906 and 1907.

	Year.	·			A verag	e pric	es per	ton (2,0	100 pou	inds)—	· 		
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	De
300k	1907	78.64	74, 20	80.15	81.86	80.80	80.96	81.43	81.20	81.99	82. 23	82. 91	82.
	1906		78.85	78.94	78.54	79.20	78.18	78.64	78.39	78.67	78.72	78.63	78.
Building	1907	33.71						34.16					<b>34</b> .
	1906	29.97	30.10	30.37	29.26	30.08	29.21	30.25	30.45	30.55	30.55	20.45	
langing	1907	40.00	40.00	40.00	42.00	42.00	42.00	42.67	42.67	42.38	42.50	42.67	
	1906	38, 70	38, 41	38.45	38.30	38, 88	39.00	39.67	39.67	40.00	40.00	40.00	40.
'isme:	1	!		İ		!		1			'		
Manila	1907	75.67	75.67	75.67	79.25	79.25	79.25	78.00	78.00	78.00	78.00	76.75	76.
	1906	75.67	75.67	74.00	76.75	76.75	76.75	76.75	76.75	78.00	78.00	76.75	76.
Fine													
	1906	197.00	192.40	194.30	187.75	199.90	193.20	.196.40	199.05	190.80	191.75	193. 45	189.
Vrapping:		1	ĺ			1			ı				
Manila	1907	46.87	47.00	47.41	47.48	48.81	48.81	49.43	51.16	51.81	52. 13	52.63	53.
	1906	44.21	44.35	44.08	44.13	44.53	44. 25	44.11	43.87	43.85	144.56	44.89	46.
Manila	1907	36.00	37.50	37.50	37.50	38.00	38.00	39.00	39.00	40.50	140.50	40.50	40.
	1906	' <b>33</b> .00	33.00	33.00	. 33.00	. 33.00	33.00	33.00	33.00	34.00	34.00	34.00	34.
Straw	1907	24.03	24.49	24.59	24.34	24.53	24.79	25.17	25.47	25.67	25.71	25.58	25.
	1906	22.86	23.05	22, 75	23. 26	22.67	22.14	22.66	22.99	23.37	23.05	23.25	23.
Vriting: Ordinary	1907	76.75	77.42	76.55	79.71	79.80	79.63	79.04	79.26	79.05	79.47	80.01	78.
• • • • • • • • • • • • • • • • • • • •	1906	75.12	75.00	74.57	74.44	74.71	74.70	74.65	74.39	75.26	75.20	75. 18	76.
Fine	1907	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.
	1906	150.00	150.00	150,00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.
Superfine	1907	188, 60	187.80	189.00	188.80	189.40	192.40	196.20	186.70	191.40	191.30	192.60	193.
-	1906	190.00	186, 20	185, 60	184.20	185.30	187.70	188.30	182, 60	188.00	184.40	187.50	186.
.edger	1907	267.36	275.36	275.36	275.36	275.36	275.36	275.36	275.36	275.36	275.36	275.36	275.
	1906	262, 60	262, 60	262.60	262.60	262.60	262.60	262.60	262, 60	262.60	262.60	262.60	262
Bond No. 1	1907	240.00	250.00	250.00	250.00	250.00	250.00	250.00	250.00	250.00	250.00	250.00	250.
	1900											235.00	
Bond No. 24	1907	208.33	215.00	215.00	215.00	215.00	215.00	215.00	215.00	215.00	215.00	215.00	215.
	1906	206, 67	206.67	206.67	206, 67	206, 67	206.67	206, 67	206, 67	206.67	206, 67	206, 67	206.
Bond No. 3	1907	188.69	195.77	194.96	197.63	197. 22	196.33	198.95	197.61	197.20	198.22	197.61.	198.
	. 1906	185.61	184.86	183.66	184.82	184.83	185.09	185.09	184. 14	184.20	185.35	185, 22	184.
Envelope	1907	105.82	105, 82	105.82	106, 50	108.32	108.32	108, 32	108.32	108.32	108, 32	108, 32	108.
	1906	103.32	103.32	103, 32	103.32	103.32	103.32	103.32	103.32	103.32	103.32	103.32	103.

Table 7.—Number of plants returned, total yearly capacity, average capacity, and average number of days operated in 1907, distributed by States.

State.	Plants (short tons). reported (num-			Average (short	Average number days	
	ber).	Paper.	Pulp.	Paper.	Pulp.	operated in 1907.
Total	235	1,190,628	673, 260	5,808	8, 522	27
Connecticut	8	22, 126		2,766		
Illinois	4	18,308		4,577		22
Indiana	3	20,580	'	6,860		29
Maine	5	29,250	<b>52,700</b>	5,850	10,540	30
Massachusetts	45	222,112	11,710	4,936	5,855	28
Michigan	17	144,559		9,035	8,224	28
Minnesota	6	31,000	32,500	10,333	6,500	14
New Hampshire	1	12,011	1,500	3,003	1,500	29
New York	. 58	21,092 300,518	318,712	3, 515 6, 830	10, 281	29. 27
Ohio	, Jo	33, 105	310, /12	3,678	10, 201	25
Pennsylvania	21	127, 960	49, 425	6,093	8, 238	. 28
Vermont	111	14, 850	39, 528	2,475	7.906	26
Virginia	1 2	5, 800	1	2,900	.,,,,,,	28
West Virginia	3	6, 155	1	2,052		28
Wisconsin		147, 142	100,915	7, 357	7, 208	29
All other States a	8	34,060	8,700	4,866	4, 350	26

a Includes Maryland and South Carolina, with two plants each; Delaware, Missouri, North Carolina, and Washington, with one plant each.

One company frequently controls more than one plant and makes a consolidated report. This accounts for the 188 returns shown in Table 1, and 235 plants in this table; the sources of the information, however, are the same.

Of the 235 plants shown in the above tabulation, 152 were returned as manufacturing paper exclusively, 23 pulp exclusively, and 60 both paper and pulp. In computing the averages, therefore, this segregation has been observed.

DEPARTMENT OF COMMERCE AND LABOR, BUREAU OF THE CENSUS, Washington, December 29, 1908.

Hon. James R. Mann.

Chairman Select Committee on Paper and Pulp Investigation, House of Representatives, Washington, D. C.

DEAR MR. MANN: I inclose a short statement in regard to the average prices of news-print paper. These averages have been computed from the reports made by newspaper publishers, and also from the testimony taken by the committee. I have excluded as far as possible all data concerning paper other than news print, and have made the statement as short as possible, avoiding the repetition of statistics. The text can be extended if you so desire by quoting the figures and making comparisons, but the amount of matter would depend upon your general scheme for the report.

In making the digest of the testimony that was sent you some time ago we brought together all of the information under different subjects. There is considerable on the subject of "price of paper"

which could be incorporated in the report if you desire.

The average price of paper is subject to all kinds of limitations, which should be given due weight in comparing it with actual prices paid by individual consumers. Some of these conditions are described in the inclosed statement.

The original reports of the newspapers are available for the preparation of almost any line of statistics concerning prices, and if you desire totals giving prices of paper other than news print, or further detailed description and comparison of the statistics, I shall take

pleasure in complying with your wishes.

It is unfortunate that the schedule sent newspaper publishers did not call for the amount of paper consumed and the actual cost, so that a true average cost per hundredweight could be obtained by a division of the price by the quantity. The averages reported on the schedules are far from satisfactory.

Very truly, yours,

W. M. STEUART, Chief Statistician for Manufactures.

#### PRICES OF PAPER.

The cost of paper to publishers is one of the most important features of the investigation, and information relative to this has been secured from both manufacturers and consumers. The committee has discovered that while all parties interested are willing to furnish quotations of prices, there is no uniformity in the price given, even where purchases were made during the same period. Among the causes which are responsible for these conditions, the following were brought out in the correspondence with the publishers and manufacturers and in the committee hearings:

ence with the publishers and manufacturers and in the committee hearings:

1. The fact that some of the purchases were made under contract and others on the open market. Publishers buying under contract, as a rule, obtain more favorable

terms than those buying on the market.

2. The differences in the time when the respective contracts were made and in the duration of the contract, inasmuch as the contract price ordinarily bears a certain correspondence to the market price prevailing at the time when the contract is

3. The variations in the quantity of paper involved in the different contracts in

general. Large consumers obtain more favorable rates than small consumers.

4. The definiteness with which the contract price is fixed. In some cases the contract specifically indicates the price which is to be paid during the life of the contract; in others the price is based upon some factor, such as the cost of production, 5. Differences in the grade of paper purchased.
6. The form in which the paper. which is subject to more or less variation.

The form in which the paper is purchased—whether in rolls, sheets, or ream lots. 7. The inclusion of freight charges in some instances and their exclusion in others

8. The discount for cash or for payment within a specified time which is given to

9. The fact that some publishers purchase through jobbers or brokers, while others deal directly with the mill.

10. The credit of the customer. Publishers of established credit are likely to receive somewhat more favorable terms than those of whom the manufacturer knows little. 11. The method of payment. The fact that payment was to be made weekly was one

of the things taken into consideration in making the low price in the Hearst contract. 12. The fact that some of the smaller publications buy "side runs," for which the average price is about 30 cents per hundredweight less than for the ordinary size.

It is impracticable to make a satisfactory adjustment of these various conditions so as to arrive at a trustworthy general average price for news-print paper at a given time. Separate quotations may be accepted in individual cases, and from a combination of the prices paid for the same grade of paper under contracts covering the same period of time the average price for a limited number of purchasers may be obtained but the combination of prices paid under dissimilar conditions, however, results in a general average which is apt to be misleading, and in the consideration of which it is impossible to give proper weight to the various conditions under which the purchases were made. Nevertheless, in the absence of a more satisfactory basis of comparison an average based on the prices paid by a large number of publishers who purchased paper under varying conditions is not without value, as it may convey some general idea as to the price of news-print paper at a given time.

The qualifications above noted should be kept in mind in the consideration of the following tables, which have been prepared from the schedule returns of publishers and purport to show the average prices of news-print paper in the years 1890, 1894. 1897, 1900, 1905, and 1907. Of these tables, Table 1 shows the average price per hundredweight of news-print paper paid by the publishers of newspapers only; Table 2 the average price paid by the trade, fraternal, and religious papers reporting; and Table 3 the average price for the magazines reporting. In all instances the averages shown in these tables have been computed by adding the average prices reported on the individual schedules and dividing the total thus obtained by the number of schedules

involved.

Table 1.—Average prices of news-print paper per hundredweight, compiled from reports of newspapers.

	Period.	То	tal.	Dailies.	
		Number reporting.		Number reporting.	Average price.
Average price of paper purchased in rolls.  Average price of paper purchased in sheets.  Average price where freight is included.  Average price where freight is not included.  Average price paid in selected years by all publications, reported without reference to the inclusion or exclusion of freight charges, the quantity purchased, or the manner of purchase.	(a) (a) (a) (a)	457 735 656 318 1,020 773 455 248 155 116	\$2. 57 3. 08 2. 79 3. 02 2. 63 2. 44 2. 33 2. 19 2. 59 2. 85		\$2.55 2.94 2.55 2.73 2.29 2.21 2.66 2.63 2.94

Table 1.—Average price of news-print paper per hundred weight, compiled from reports of newspapers—Continued.

	Period.	Weel	rlies.	All other.	
		Number reporting.	A verage price.	Number reporting.	A verage price.
Average price of paper purchased in rolls	(a)	32	\$2. 84 3. 13	7	\$2.54 3.06
A verage price of paper purchased in sheets	(a) (a)	502 196	3.13	20	3. Ut
A verage price where freight is not included	(a)	215	2.13	19	3.01
	1907	426	2.82	40	2. 72
A verage price paid in selected years by all publications, reported without reference to the inclusion or exclu-	1905 1900	310 178	2. 64 2. 51	28 16	2. 48 2. 36
sion of freight charges, the quantity purchased, or the	1897	94	2. 39	11	2.04
manner of purchase.	1894	63	2.56	7	2. 2
	1890	51	2. 81	6	2. 43

a Spring of 1908.

Table 2.—Average price of news-print paper per hundredweight, compiled from reports of trade, fraternal, and religious papers.

	Period.	Tot	al.	Dai	lies.	Wee	klies.
		Number reporting.	A verage price.	Number report- ing.	Average price.	Number report- ing.	Average price.
A verage price of paper purchased in rolls.	(a)	41	\$2.71	. 13	\$2.70	14	\$2.74
A verage price of paper purchased in sheets	(a)	91	3.63	6	3. 35	58	3. 40
A verage price where freight is in- cluded	(a)	74	3. 26	11	2.95	40	3. 42
A verage price where freight is not included	(a)	17	3. 23	3	2. 52	9	3. 21
Average price paid in selected years by all publications reporting without reference to the inclusion or excitation of freight charges, the quantity purchased, or the manner of purchase.	1907 1905 1900 1897 1894 1890	113 81 40 23 17 14	3. 04 2. 88 2. 85 2. 93 3. 28 3. 47	18 16 7 4 3 2	2. 48 2. 44 2. 07 2. 03 2. 43 2. 84	60 40 20 12 9 7	3. 17 3. 02 3. 06 2. 86 2. 92 3. 27
		' <del>_</del>	Ī	Mon	thlies.	All o	ther.
			Period.	Number report- ing.	Average price.	Number report- ing.	Average price.
A verage price of paper purchased in rolls		1900	12 18 16 4 26 19 9 5 4	\$2. 73 3. 83 3. 00 3. 87 3. 04 3. 01 3. 19 3. 86 4. 80 4. 87	2 9 7 1 9 6 4 2 1	\$2. 42 3. 89 3. 46 3. 05 3. 25 2. 78 2. 30 2. 57 2. 80 2. 70	

TABLE 3.—Average prices of news-print paper, per hundredweight, compiled from reports of magazines.

	1	Tot	tal.	Weeklies.	
	Period.			Number reporting.	
A verage price of paper purchased in rolls.  Average price of paper purchased in sheets.  A verage price of paper where freight is included.  A verage price of paper where freight is not included.  A verage price paid in selected years by all publications reporting, without reference to the inclusion or exclusion of freight charges, the quantity purchased, or the manner of purchase.	(a) (a) (a) (a) (a) (1907 1905 1900 1897 1894 1890	8 5 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	3. 29 3. 75 2. 88 2. 35 2. 14	1 1	\$4.00 4.20 4.20 3.77 3.70
		Mont	hlies.	All o	ther.
	Period.		Average	All o	Average

a Spring of 1908.

In making the above tabulation all returns were excluded in which the publisher-specifically indicated that they were reporting the price, not of news-print paper, but of book paper or other superior grades. In spite of this fact, however, the high averages shown in some instances in Tables 2 and 3 make it seem probable that in some cases the publishers returned the prices paid for other varieties than news-print paper without specifying this fact. The averages in these tables must therefore be accepted with some degree of caution.

It will be observed that in Table 1 the average price when freight is included is less than the average when freight is excluded. It is difficult to assign any reason for this, although it may be to some extent due to the fact that the publications in the western portion of the country, who more often reported the price excluding freight, seem to have paid a relatively higher price than those in the East, which furnished the greater proportion of the returns in which freight was included.

According to Table 1, the average price paid for news-print paper in the spring of 1908, by the publishers reporting, was \$2.57 per hundredweight for paper purchased in rolls and \$3.08 for paper purchased in sheets. The former figure shows a remarkably close correspondence with the average deduced from the prices reported to the committee as paid by 22 publishers who appeared before it in person and by 172 publishers who sent responses to the telegram sent out by Mr. Ridder on May 1. this average being \$2.56. It must be remembered, however, that there is no uniformity in these returns with regard to the inclusion or exclusion of freight charges.

In connection with the above tabulation the following tabular information, taken from Bulletin 75 of the Bureau of Labor, may be of interest:

TABLE 4.—Wholesale prices per pound of news paper (wood) in New York, on the first of each month: 1907.a

Month.	Price.	Month.	Price.
January. Pebruary March. April. May. June. July.	\$0. 0225-\$0. 0250 . 0200 0225 . 0200 0225 . 0245 0265 . 0245 0265 . 0245 0265	August September October November December Average.	. 0245 0265 . 0255 0275 . 0255 0275 . 0255 0275

The figures presented in this table are taken from Bulletin 75 of the Bureau of Labor, page 394. The original quotations are from the New York Journal of Commerce and Commercial Bulletin.

TABLE 5.—Monthly actual and relative prices of news paper in 1907 and base price (average for 1890–1899), a

[ Average for 1907 computed from quotations in Table 1.]

Month.	Price per pound.	Relative price.	Month.	Price per pound.	Relative price.
Average, 1890–1899		100.0		\$0.0255	85. 3
January	.0238	79.6 71.2	September	. 0255	85. 3
February	.0213	71.2	October	. 0265 . 0265	88. 6 88. 6
April	. 0255	85.3	December	. 0265	88.6
May	. 0255	85.3	A 1007		^^ ^
July	. 0255 . 0255	85.3 85.3	Average, 1907	. 0249	83.3

[•] The figures presented in this table are taken from Bulletin 75 of the Bureau of Labor, page 414. The monthly prices are based upon the figures given in Table 5.

TABLE 6.—Average yearly actual and relative prices of news paper, 1890-1907, and base price, 1890-1899.a

Year.	Average price per pound.	Relative price.	Year.	Average price per pound.	Relative price.
Average, 1890-1899		100.0	1899	<b>\$</b> 0. 0209	69. 9
1890		127.8	1900	. 0281	94. 0
1891	. 0340	113.7	1901	. 0226	75. 6
1892	. 0340	113.7	1902	. 0242	80. 9
1893	. 0318	106. 4	1903	. 0253	84.6
1894	. 0323	108.0	1904	. 0267	89. 3
1895	. 0308	103. 0	1905	. 0242	80. 9
1896	. 0275	92. 0	. 1906	. 0219	73. 2
1807	. 0271	90. 6	1907	. 0249	83. 3
1898	. 0219	73. 2			

^a The figures presented in this table are taken from Bulletin 75 of the Bureau of Labor, page 452.

It will be noted that according to the above authority the average market price of news-print paper in New York during 1907 was \$2.49 per hundredweight, while the average of the prices reported by the newspapers sending replies to the committee's inquiry was \$2.53, a remarkably close approximation. For 1905 the figures are even closer, the average wholesale price in the New York market having been \$2.42, while the average deduced from the schedules is \$2.44. For the remainder of the years specified in the schedule sent out by the committee the averages show a wide difference, however, which in 1890 amounts to 97 cents per hundredweight.

The above tables of the Bureau of Labor were made up on a uniform basis, and the price for each year represents presumably the mill price plus the freight rate to New York, while the number of publications upon which the averages in Table 1 are based varies from 116 in 1890, to 1,020 in 1897, with a consequent variation in the factors

affecting the average reported for any given year. It should be noted, however, that the general movement of the prices shown in Table 1 is virtually the same as that shown in Table 6, the maximum price shown in both cases for the years presented in Table 1 being for 1890 and the minimum in 1897, with a steady decline from 1890 to 1897 and a steady increase from 1897 to 1907.

According to Table 6 the lowest average wholesale price of news-print paper in the New York market since 1890 was \$2.09 per hundredweight, reported in 1899, while the highest was \$3.82 per hundredweight, reported in 1890. The lowest wholesale quotation during this period was from \$1.75 to \$2 per hundredweight for October, 1899, and the highest from \$3.75 to \$4.50 per hundredweight for January, 1890.

In connection with the statistics already presented it may be well to present the following comparative statement, which shows the prices paid at different times by 19 publications whose representatives appeared before the committee.

TABLE 7.—Comparative statement of prices paid at different times by the publications represented at the hearings.

	·	Year in	Prices	paid.	
Publication.	Period covered by contract.	which,	Deliv- ered.	At mill.	Source of supply.
		-		_	
Maryland:				1	
	Jan., 1908, to Jan., 1909				International Paper Co.
	Jan. 1, 1906, to Dec 31, 1907.	1905	1.90	· '	Do.
Illinois:	Jan., 1905, to Jan., 1910	1004	( <b>s</b> )		Perkins, Goodwin & Co.
Kansas:	Jan., 1900, to Jan., 1910	1503	(4)	!	reikms, Goodwin & Co.
Topeka State Journal	Jan., 1908, to Jan., 1909	1907	2.60	\$2, 29	Itasca Paper Co.
Do		1906		1.91	John A. Davis & Co.
Do	Sept., 1905, to Sept., 1906	1905		1. 93	General Paper Co.
Do	Aug., 1897, to Mar., 1898				Graham Paper Co.
Massachusetts:				i	orania repor cor
	July, 1905, to July, 1908	1905	2.00		International Paper Co.
Rhode Island:		1			- upti ov.
	Mar., 1907, to Mar., 1912	1907	(b)		Do.
	Apr., 1906		1.90		Pejepscot Paper Co.
Massachusetts:					
Springfield Union	Jan., 1908, to Jan., 1909	1907	2. 30	1.80	J. R. Booth.
Rhode Island:	·		:	i	
	Jan., 1906, to Jan., 1911	1905	(e)		International Paper Co.
North Carolina:				i	-
	Jan., 1908–9	1907	3.00	2. 57	Antietam Paper Co.
News.				i	_
New Hampshire:			1	1	
Manchester Union	Sept., 1907, to Sept., 1908	1906	2.00		Pejepscot Paper Co.
Do	Sept., 1905, to Sept., 1907	1905	1.90	• • • • •	Do.
New York:	T. 1000 A	1000	0.50	1	
	Jan., 1908-9	1907	2. 50	• • • • • • •	H. G. Craig & Co.
ard.	D 1007 B	1007		1 00	Ot Dard- C-
	Dec., 1905-7	1905	1.75		St. Regis Co.
Minnesota:	Dec. 1004.0	1904	(4)	- 1	
Ohio:	Dec., 1904-9	1904	(d)	• • • • • •	Perkins, Goodwin & Co.
Almon Bosson Tournel	Jan., 1908–9	1000	49.45	1	Whitaker Paper Co.
Missouri:	Jan., 1907-9	1900	2. 10	• • • • • • •	windaker Paper Co.
Sedalia Democrat	Aug., 1907-8	1007	12 631		Graham Paper Co.
Oblos			, a. oog		Granam raper co.
Woman's Home Com-	Jan., 1907-8		2. 43		Laurentide Paper Co.
panion, The Farm					manda i oper co.
and Fireside.					
Tennessee:					
Memphis Commercial-	Jan., 1908, to Dec., 1908	1907	2.69	. <b></b> .	Manufacturing Paper Co.
Appeal.			1		• • • • • • • • • • • • • • • • • • • •
Do'	Jan., 1907-8	1906	2.00		Do.
Do	July, 1905, to Jan., 1907	1905	2. 121		Do.
Do	Jan., 1905–6	1904	1 2. 37		Do.
Do	Jan., 1904-5	1903	1 2. 40		Do.
a The first two	vears \$2.10 less 11 per cent	· after	that nel	na ta N	e determined

a The first two years, \$2.10, less 1\(\frac{1}{2}\) per cent; after that price to be determined. \(\frac{1}{2}\) First year \$2.20; market price in January for each of next two years. \(\frac{1}{2}\) 1008, \$2.05; 1907, \$2.10; 1908, \$2.50.
\(\frac{1}{2}\) 1907, 1923 1\(\frac{1}{2}\) per cent), \$2.10; market price after. \(\frac{1}{2}\) Less 3 per cent for thirty days.

/3 per cent off for cash.

TABLE 7.—Comparative statement of prices paid at different times by the publications represented at the hearings—Continued.

		Year in	Prices paid.			
Publication.	Period covered by contract.	which con- tract was made.	Deliv- ered.	At mill.	Source of supply	
New Jersey:						
Newark Evening News.	Jan. 1, 1908, to Dec. 31, 1908.	(a)	2.50		International Paper Co	
Do	Jan. 1, 1907, to Dec. 31, 1907.	(a)	2.35		Do.	
Do	Oct., 1905, to Dec., 1906	(-)	2.25		Do.	
Do	Apr., 1905, to Apr., 1906	(-)	8 2. 40		Do.	
Do	Apr., 1904, to Apr., 1906	(0)	\$2.40		Do.	
Do	Apr., 1903, to Apr., 1904	c1905	b 2. 40	1	Do.	
Do	Apr., 1902, to Apr., 1903	1	b 2. 25		Do.	
Do	Apr., 1901, to Apr., 1902		b 2. 40		Do.	
Do		c1900	42.15		Do.	
Do		c1899	b 2. 15		Do.	
Do		¢1898	b 2, 124		Wilder & Co.	
lli nois:						
Chicago Record-Herald.	Jan., 1906-1910	1905	(d)	1	International Paper Co	
Do	Jan., 1905-1909	1904	2.00	l	Do.	
Сеппесес:		2301				
Knoxville Sentinel	1906.		¢ 2. 624	I	W. H. Parsons & Co.	
Pennsylvania:	1000		- 2.029			
Johnstown Democrat	1908.		2.55		International Paper Co	

o No datelgiven., b Cotton waste.

The lowest price shown in this statement is \$1.34 per hundredweight at the mill, or about \$1.73 delivered, paid by the Topeka (Kans.) Daily State Journal under a contract running from August, 1897, to March, 1898. The highest price shown is \$2.57 per hundredweight at the mill, or \$3, which was paid by the Asheville (N. C.) Gazette-News under a contract covering the calendar year 1908. The lowest delivered with property of the calendar year lower and the calendar year lower and the calendar year lower and the calendar year lower the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower than the calendar year lower tha ered price mentioned in the course of the testimony as having been paid for news-print paper at any time was \$1.60 per hundredweight, on what is known as the production basis, equivalent to about \$1.50 on the present gross-weight basis, paid by the New York World in 1897. Mr. Hastings, of the Lynn Item, stated that he paid \$1.64\frac{1}{2}\$ delivered, for 100 tons of paper purchased on January 5, 1898. The prices paid by the New York Staats Zeitung from 1891 to 1908 were presented in a statement submitted to the committee by Mr. Lyman, of the International Paper Company, the maximum being \$2.90 delivered, paid in 1891, and the minimum \$1.75 delivered, from February, 1899, to August 31, 1900, and during the calendar year 1906. The evidence shows that in general the price of news-print paper reached its lowest level from 1897–1899, although as late as 1906 and 1907 the New York Staats Zeitung and the Syracuse Post-Standard obtained paper from the St. Regis Company for \$1.75 delivered.

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c April.
d 1906, \$2; not less than \$1.90 or more than \$2.10.
d 2 per cent_discount_for 10 days.

Table 8 shows the prices of news-print paper during 1906, 1907, and 1908, as obtained from the evidence presented to the committee by a large number of publishers. The general average price per hundredweight, as computed from this testimony, was \$2.10 in 1906, \$2.28 in 1907, and \$2.54 in 1908.

[From evidence presented to Select Committee on Pulp and Paper Investigation.]

TABLE 8.—Prices of news-print paper.

#### 1906.

Tueson Daily Star Tueson Daily Star California: Chice Record Durango Democrat Chice Record Loe Angeles Evening News Scarament Union Staringer News Connecticut: Ansonia Sentinel Bridgeport Standard New London Daily Globe Now London Daily Globe Now London Daily Globe Stamford Daily Advocate Connecticut: Angusta Chronicle Chicago Daily Journal Chicago News and Record-Herald Chicago News and Record-Herald Danville Democrat Connecticut Staringer News Chicago News and Record-Herald Danville Democrat Connecticut Staringer News Connecticut Chicago News and Record-Herald Chicago News and Record-Herald Connecticut Staringer News Connecticut Staringer News Chicago Statinger Connecticut Staringer News Connecticut Chicago News and Record-Herald Connecticut Staringer News Connecticut Staringer News Connecticut Chicago Statinger Connecticut Staringer News Connecticut Staringer News Connecticut Staringer News Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut	State, city, or town, and publication or publisher reporting price.	Price of news-print paper per hundred- weight.	Remarks.
California: Chioe Record. Chioe Record. Durange Democrat. Los Angeles Evening News. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review. Seedlands Review.			
Carload lots.   Carload lots.   Carload lots.   Carload lots.   F. o. b. Loe Angeles.   F. o. b. Rediands; carload lots.   F. o. b. Rediands; carload lots.   F. o. b. Rediands; carload lots.   F. o. b. Rediands; carload lots.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.   F. o. b. mill.	Tucson Daily Star	\$2. 25	
Durango Democrat.   2.90			
Denver News   Denver News   Denver News   Denver News   Denver News   Denver News   Denver News   Denver News   Denver News   Denver News   Denver News   Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver Denver	Chico Record	2.90	Carload lots.
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Muskogee Daily Phoenix 2. 40 Iowa: Waterloo Courier. 2. 00 Kansas: Chanute Sun. 2. 45 Fort Scott Tribune-Monitor 2. 40 Hutchinson News. 2. 22 Newton Republican 2. 20 Pittaburg Headlight 2. 22 Pittaburg Headlight 2. 22 Topeka Daily State Journal 2. 22 Wichita Daily Beacon 2. 46 Kentucky: Louisville Heraid 2. 00 Until April 5, 1907.	Princeton Clarion-News	1.93	
Iowa:	Indian Territory:		
Waterloo Courier		2.40	Price in December.
Kansas Chante Sun. 2.45 For Scott Tribune-Monitor 2.40 Hutchinson News. 2.62 Newton Republican 1.94 Parsons Sun. 2.20 Pittaburg Headlight 2.20 Pittaburg Headlight 2.26 Wichita Daily State Journal 2.25 Wichita Daily Beacon 2.464 Kentucky: Louisville Herald 2.00 Until April 5, 1907.		2.00	Tinder contract
Chante Sun. 2. 45 Fort Scott Tribune-Monitor 2. 40 Hutchinson News. 2. 22 Newton Republican. 2. 20 Pittaburg Headlight. 2. 25 Topeka Dally State Journal 2. 25 Wichita Dally Beacon 2. 464 Kentusky: Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 465 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 00 Louisville Heraid. 2. 0	Kansse:	1	Onder contract.
Topeka Daily State Journal. 2.25 Wichita Daily Beacon. 2.462 Wichita Daily Beacon. 2.462 Kentucky: Louisville Herald. 2.00 Until April 5, 1907.	Chanute Sun	2.45	F. o. b. Kansas City.
Topeka Daily State Journal. 2.25 Wichita Daily Beacon. 2.462 Wichita Daily Beacon. 2.462 Kentucky: Louisville Herald. 2.00 Until April 5, 1907.	Fort Scott Tribune-Monitor	2. 40	Under contract delivered f. c. b. Hutchinson.
Topeka Daily State Journal. 2.25 Wichita Daily Beacon. 2.462 Wichita Daily Beacon. 2.462 Kentucky: Louisville Herald. 2.00 Until April 5, 1907.	Hutchinson News	2. 52	D-1
Topeka Daily State Journal. 2.25 Wichita Daily Beacon. 2.462 Wichita Daily Beacon. 2.462 Kentucky: Louisville Herald. 2.00 Until April 5, 1907.	Newton Republican	1.94	rnoe at mill.
Wichita Dally Beacon	Pittshurg Wasdiight	2.20	Until Inly 1007
Wichita Dally Beacon	Topeka Daily State Journal	2.25	Under contract for 1906 f. o. b. Topeka Price at
Wichita Dally Beacon		i	
Louisville Herald		c 2. 464	, - "
taran da antara da antara da antara da antara da antara da antara da antara da antara da antara da antara da a	Kentucky:	17	n . n
a Lore 11 nee cont h Lore 4 non cont a Dollar-	Louisville Herald	2.00	Unui Aprii 5, 1907.
a Less 1; per cent. b Less 4 per cent. c Delivered.	4 Less 11 per cent.	b Less	4 per cent, c Delivered,

State, city, or town, and publication or publisher reporting price.	Price of news-print paper per hundred- weight.	. Remarks.
Louisiana: Charles S. Clark, New Orleans (for supply of Dally States and News).	\$1.92	F. o. b. New York, under year's contract ending
New Orleans Picayune	2. 40 2. 47 <u>1</u>	May 1, 1907. Delivered at wharf, New Orleans.
Maine: Portland Argus	1.90	
Portland Evening Express  Maryland: Baltimore American	2.00 1.90	Under 2-year contract expiring December 31, 1907,
Massachusetts:		f. o. b. Baltimore.
Lynn Item	2. 25 2. 05 2. 00	Price paid on March 9. Price paid from June to October. Price in November and December.
Pittsfield Eagle	2.00	Car lots, delivered.
Springfield Republican	2.00	Under 3-year contract expiring in 1908.
Springfield Republican Taunton Herald-News Michigan:	2. 10	Under contract for 1906.
Adrain Daily Telegram  Kalamazoo Evening Telegraph  Kalamazoo Gazette	1.96 2.05 1.90	Delivered, year ending August, 1906.
Sault Ste. Marie News	2. 10	November 12.
Duluth News-Tribune  Duluth Evening Herald	1. 92 <u>4</u> 1. 92 <u>4</u>	delivered: freight, 5 cents.
Minneapolis Journal	1. 93	Contract expiring September 30, 1907. Contract to November 1, 1907.
St. Paul Dispatch	1.93 2.00	Under contract.
Missouri: Joplin News-Herald	2.12	One year contract ending in July.
Kansas City (Mo.) Journal.	1. 80	F. o. b. mills.
Kansas City (Mo.) Journal St. Joseph Gazette	1. 95	At mill.
St. Joseph News-Press Nebraska:	2.05	F. o. b. St. Joseph, on contract beginning June 1.
Lincoln State JournalOmaha Daily Bee	2. 15 1. 80	F. o. b. mill, until February 20, 1907.
Manchester Union	1. 90 2. 15	Delivered, under two-year contract expiring September 1, 1907.
Manchester National and Canada- American.	2 15	Delivered, under one-year contract expiring February 3, 1907.
New Jersey:	1.05	D - b Ashara Dash
Asbury Park Press	1. 95 2. 00	F. o. b. Asbury Park. Until May, 1907.
Newark Evening News	2.25	Onui May, 1801.
Paterson News	1. 90	
New Mexico: Albuquerque Citizen New York:	3. 45	Until May, 1907.
Albany Herald	2.45	Car lots f. o. b. Albany.
Alling and Corey (for supply James- town Morning Post). Crowell Publishing Co	42.00	Under contract expiring March 2, 1907, f. o. b. Jamestown.
Crowell Publishing Co	1. 94	Under two-year contract, f. o. b. Springfield, Ohio.
New York Morning Telegraph New York Staats-Zeitung	1. 95	
New York Staats-Zeitung	1. 75	Under contract for 1906, delivered.
Syracuse Post-Standard	1.75 2.00	F. o. b. Syracuse, under contract. Do.
Asheville Citizen	2.20	F. o. b. Asheville.
Greensboro Daily Record	2. 20	
North Dakota:	a 2. 224	Delivered, under contract expiring in June, 1907.
Grand Forks Herald	· ·	<u> </u>
Akron Beacon-Journal  Columbus Dispatch	1.90	Under 2-year contract commencing January 1, f. o. b. sidewalk.
East Liverpool Evening Record	2.00	
Marietta Journal	2.10	Car lots.
Marietta Journal	2.00	
Toledo Express	1.94	
		Less 4 per cent.

State, city, or town, and publication or publisher reporting price.	Price of news-print paper per hundred-weight.	Remarks.
Oklahoma:		
Okiahoma City Okiahomian	\$1.90	F. o. b. under contract.
Oregon: Salem Capitol Journal	2. 15	I
Pennsylvania:		
Allentown Morning Cali	1.94 2.00	Price in October.
McKeesport Daily News	2.00	Contract. Expires September 1, 1907.
Philadelphia Press	1.90	Under contract.
Reading Times	i 1.90 42.10	Under contract, delivered. Freight 18 to 20 cents
Williamsport News	2.00	Under contract expiring March 1, 1907.
Rhode Island: Providence Tribune	1.90	Under 5-year contract expiring February 29, 191;
		Prices fixed each year.
Providence Journal	2.05	Under 5-year contract expiring January 1, 1910. Prices adjusted every November.
South Dakota: Deadwood Pioneer Times	2, 20	
Sioux Falls Daily Press		Delivered.
Tennessee: Memphis Commercial Appeal	2. 124	Under contract running from July 1, 1905, to De
Knoxville Sentinel		camber 31, 1906. Delivered. Under contract. Delivered.
Texas:	1 00	Tindon 0 was a soutened beginning Testers 2
Fort Worth Record	1.80 to 1.89	Under 2-year contract beginning July 1, f. o. b. mill
San Antonio Light	1.90	
San Antonio GazetteUtah:	1.88	
Descret News (Salt Lake)	1. 85	F. o. b. mill under 2-year contract beginning is February.
William Gleason, Ogden		Delivered.
Salt Lake Tribune		Price at mill until July 1, 1907. Freight \$1.05.
Burlington Free Press	2.00	Under contract.
mont Weekly Watchman.	2. 30	F. o. b. Montpelier under contract expiring Marci 10, 1907.
Virginia: Virginian Pilot (Norfolk)	2. 15	F. o. b. Norfolk under 3-year contract expiring June 30, 1908.
Bristol Herald-Courier	2. 20	Delivered. Freight, 30 cents.
Washington: Seattle Post-Intelligencer	2.50	F. o. b. Seattle until March 16, 1907.
West Virginia:	2.00	1. U. D. Course until March 10, 1807.
Fairmont West Virginian	2.00	Until fall of 1907.
Parkersburg State Journal	2.00 1.95	
Peneral average price for 119 of the pub- lications for which quotations are given.	2.10	
	190	7.
Arizona: Arizona Republican (Phoenix)	a #9 20 i	Price f. o. b. mill. Freight rate \$1.89. Contract
•	j	ending April 30, 1908.
Tucson Daily Star	2.60	Potential by mally sendent acceptant by the training
Hot Springs Daily News		Price f. o. b. mill under contract beginning December 1, 1906, and ending in spring of 1908.  Price f. o. b. mill under contract for 1907.
Little Rock Democrat	{ 2.30	Quotation price f. o. b. mill for 1908.
Chica Decord	3.60	Carload lots.
Durango Democrat	3. 35 ₁ 3. 05 ;	F. o. b. Los Angeles.
Los Angeles Evening News	3.00	Quotation.
Redlania Review	2. 55	Quotation. F. o. b. Redlands; carload lots.
Stockton Daily Record	3. 40 2. 25	Contract for 1907.  F. o. b. mill; new contract made in 1907.
Canada:		
Ottawa (Ontario) Citizen	2.00	Under 3-year contract beginning in May, 1907.
*Ia	ss 3 per cent	, thirty days.

State, city, or town, and publication or publisher reporting price.	Price of news-print paper per hundred- weight.	Remarks.
Colorado: Denver News	\$2.224 3.30 2.30	Price f. o. b. mill beginning August 1, 1907. Price paid for 1 carload in June. Contract price f. o. b. mill.
Connecticut: Ansonia Evening Sentinel Bridgeport Standard Hartford Globe	2.03 2.25 1.90 4 2.00	Under contract expiring September i. Under contract beginning with May 1. Under contract ending in April, 1908. Price delivered under contract ending in February,
Meriden Morning Record  New London Daily Globe	b 2.60 2.00	1908. Quotation for 1908.
		ber.
Norwich Bulletin	2.15 2.00 2.60	Under contract for 1907. Quotation made for 1908.
Stamford Daily Advocate	2.50	Under contract expiring in August.
Winsted Citizen	2.50 2.70 2.00	Under contract expring in August. Under new contract commencing in August.
District of Columbia: National Tribune.	2.30	Price f. o. b. press room, under contract ending March 1, 1908.
Florida:	2. 25	
Georgia:	!	TT 1
Augusta Chronicle	2. 30 2. 80	Under contract for 1907. Quotation for 1908.
Columbus Enquirer Sun	2.30	Price delivered under contract for 1907.
Macon News	2. 30 2. 20	F. o. b. Macon, under contract for 1907.
Illinois: Aurora Dally News	2. 50	Contract for 1907.
Aurora Dally News Bloomington Bulletin Chicago Dally Journal	2. 10 2. 35	Until November 1. Subsequent to June 1.
Chicago Abend Post	1.87½ d 2.05 d 2.05	Delivered under contract. Do.
Centralia Evening Sentinel	2.68 2.09	In car lots delivered. Under contract.
Danville Commercial News	2.50 2.44	On April 1, 1907, f. o. b. Danville. Contract beginning in July, 1907, Danville, f. o. b.
Danville Democrat	2. 573 2. 65	Beginning July 1.
Decatur Herald	2. 18 2. 50 2. 50	Quotation.
Household Guest (Chicago)	1 2.00 2.021	F. o. b. press room. Under contract f. o. b. Springfield. Freight rate
Illinois State Register (Springfield)	: 2.00	about 16 cents.
Joliet Herald.	2. 62 2. 40	Quotations for 1908. Contract for 1907.
Joliet Daily NewsLincoln Daily Courier	2. 45 2. 35	Begining July 1.
Moline Daily Dispatch	2.024	Until August 1. F. o. b. Peoria.
Peoria Journal Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria Herald-Transcript Peoria	2. 46 2. 40	Price delivered, beginning with July.
Peoria Herald-TranscriptQuincy Whig. Quincy Herald.	1.96	
Rock Island Argus	2. 35 2. 05	Single car.
Rockford Morning Star	2. 45	Contract for 1907.
Indiana: Anderson Evening News and Weekly	-	Under contract, f. o. b. Anderson.
Democrat. Evansville Journal-News	2. 50-2. 60	
Evansville Courier	( 2.09	Delivered under contract ending Apr. 1, 1908.
Goshen News-Times Indianapolis, Muncie, and Terre	2. 67½ 2. 65 2. 25	Quotation delivered in fall of 1907.
Haute Star.		

State, city, or town, and publication or publisher reporting price.	Price of news-print paper per hundred- weight.	Remarks.
Indiana—Continued.		i [*] '•
Laylayette Courier	<b>\$2.57</b>	Under contract.
Marion News Tribune.  Marion Leader, Indianapolis Hoosier, Crawfordsville Review, and Ashe-	2. 42 2. 25	Beginning Apr. 1.
ville (N. C.) Citizen. Princeton Clarion News	2.60	Beginning in June.
Portland Commercial Review South Bend Tribune Indian Territory.	2.75 2.30	Under contract beginning August 1, 1907. Under contract.
Muskogee Daily Phoenix	2. 82 2. 91 3. 00	Price in March. Price in April. Price under contract for 1 year made in 1907.
Iowa:		The under contract for 1 year made in 1901.
Burlington Hawkeye	2.08	Until August.
Council Bluffs Leader	2. 10 2. 10	Under contract running until February 1, 1908. Under contract delivered. Freight 20 cents.
Davenport Democrat	2.00	Under contract ending in August.
Davenport Democrat. Dubuque Times-Journal. Dubuque Telegraph-Herald.	2.00	onder contract expiring september 1.
Dubuque Telegraph-Herald	2.00	Do.
Des Molnes Capitol Sioux City Tribune Waterloo Courier Waterloo Times-Tribune	2.00 2.06	F. o. b. Des Moines. Under contract.
Waterloo Courier	2. 401	Do.
Waterloo Times-Tribune	2. 03	I
Kansas: Atchison Globe	2, 48	Under contract, delivered.
Chanute Sun	3. 15	F. o. b. Kansas City.
Chanute Sun. Coffeyville Journal	2. 57	Under contract, delivered.
Fort Scott Tribune-Monitor Hutchinson News	2.80 2.93	Do. F. o. b. Hutchinson.
Iola Register	2. 40	Under contract.
Iola Register W. P. Feder, Great Bend Newton Republican	2.50	No contract.
Newton Republican	2.68	Price at mill.
Pittshurg Headlight	2.81 2.5317	Beginning in July.
Parsons Sun Pittsburg Headlight Wichita Beacon	1.97	Until September.
Wichita Dally Beacon	3 15	Delivered
:	2.75	Quotation September 21, f. o. b. Chanute.
F. P. Cone, Chanute	2.80 3.15	Quotation September 21, f. o. b. Chanute. Quotation September 26, f. o. b. Chanute. Quotation October 1, f. o. b. Kansas City.
	3. 08 3. 00	Quotation October 2, f. o. b. Chanute. Quotation October 9, f. o. b. Chanute. Price at mill \$2.62.
Topeka Daily State Journal	2. 21	Under contract for 1907 f. o. b. Topeka. Price at mill \$1.90, less 3 per cent for cash.
Kentucky: Louisville Anzeiger	2.05	
Latityilla Harold	2 20	Taking effect April 5, 1907.
Owensboro Messenger	2. 20	F. o. b. Owensboro.
Louisiana:	2. 20	Taking effect January 1, 1907.
New Orleans Picayune	2.85 2.40	Delivered at wharf in New Orleans. Until August f. o. b. wharf.
Shreveport Times	2.86	Gradually since January 1, 1907.
Maine:	0.00	E a h Bansan
Bangor Commercial, Bangor	2.50 2.50	F. o. b. Bangor. Under contract expiring May 1, 1908.
Biddeford Daily Journal Portland Argus	2, 10	
Portland Evening Express	2. 00 2. 25	Contract expires 1911; price adjustable December of each year.  F. o. b. Rockland, under contract ending December.
		ber 15.
F. B. Nichols, Bath	2. 25	Until summer.
Baltimore American	1.90 2.40	Under 2-year contract, f. o. b. Baltimore.
Massachusetts:		Tinder contract for 1997
Boston Journal. Fitchburg Sentinel Printing Co	1.90	Under contract for 1907.
Lowell Courier-Citizen	4 2. 10 2. 25	Under contract to April, 1908.
Lynn Item	2 10	Linder contract for 1907.
New Bedford Standard	1.92	F. o. b. New Bedford, under contract expiring in June.
North Adams Transcript	2.50 2.10	Quotation for 1908. Under contract for 1907.

State, city, or town, and publication or publisher reporting price.	news-print paper per hundred- weight.	Remarks.
Massachusets—Continued.	-	
North Adams Herald	92.58	F. o. b. North Adams.
	2, 17	Rolls, f. o. b. North Adams, odd lots.
Pittsfield Eagle	2.20	Quotation early in year f. o. b. Pittsfield.  F. o. b. Pittsfield in lots.
Springfield Union	2.00	F. o. b. Springfield.
Springfield Republican	2.00 2.35	Under contract expiring in 1908. Until October 17.
Taunton Gazette. Taunton Herald News. Worcester Post.	2.25	Under contract for 1907.
Worcester Post	1.90	Do.
Adrian Daily Telegram	2.06	Ending August, 1907.
Adrian Daily Telegram Detroit Daily Abend Post	2.10	Contract expiring July 1.
Detroit Free Press	0.70	Under contract. Under contract beginning in June.
Kalamazoo Gazette Kalamazoo Evening Telegraph Lansing State Republican Menominee Herald Leader	2. 123	January 1.
Kalamazoo Evening Telegraph	2.05 2.10	Contract for 1907.
Menominee Herald Leader	2.10	Until August.
		February 15.
Sault Ste. Marie News	2.40 2.60	July 3. September 14.
Minnesota:		
Duluth News-Tribune  Duluth Evening Herald	1.92} 1.92}	delivered, freight, 5 cents.
	1.92	Under contract expiring September 30.
Minneapolis Journal	1.92	Under contract expiring November 1.
St. Paul Dispaten	2.51½ 2.40	Under contract. First half of year.
Minneapolis Journal St. Paul Dispatch. Winona Republican Herald	2.50	Beginning in summer, three months.
dississippi: Jacksonville Dally News Meridian Morning Dispatch dissouri:	2.45	Under contract. Do.
Joplin News Herald	2. 20 2. 61	Contract beginning July, 1906. Price in March.
Kansas City (Mo.) Journal	1.80	F. o. b. at mills.
Sedalia Democratic Sentinel		Quotation for 1908.
St. Joseph Gazette	2. 121 2. 40	Under contract ending August 1. At mill.
St. Joseph News Press	2. 38	F. o. b. St. Joseph, on contract beginning June 1.
St. Louis Globe-Democrat	2. 10	Under contract.
Anaconda Standard	a 1.90 1.90	At mill, under contract expiring in fall. Under contract.
Nebraska: Green Island Independent	3.06	Price, July; no contract.
Lincoln State Journal	2.30	
Lincoln State Journal Lincoln Daily Star Omaha Daily Bee Omaha World-Herald	2. 25½ 2. 15	Delivered until August 1. Freight, 23 cents.
Omaha World-Herald	1.80	F. o. b. mill, beginning February 20. Price at Wisconsin mill.
New Hampshire: Manchester Union	1. 90	Delivered under 2-year contract expiring Septem
Manchester Mirror and American	2, 25	ber 1.
Keene Sentinel	2. 20	Contract expiring July 1.
W. H. Pritchard, North Nashua	1.90	Contract for 1907.
New Jersey: Asbury Park Press	,	Quotation for 1908.  F. o. b. Asbury Park.
Camdan Post-Telegraph	2 15	
Newark Sunday Call	2.50 2.60	Quotations for renewal of contract expiring to
Newark Star	2. 35	August. Contract for one year, beginning in May.
	0 00	
New Jersey Freie Zeltung (Newark). Paterson Guardian. Paterson News.	2. 15 1. 90	Until March 1, 1907. Until spring of 1908.
Paterson News		Ones opring or rows.
Albuquerque Morning Journal	2, 95	F. o. b. Albuquerque, under contract for 1907.

a Less 2 per cent cash.

Albany Argus. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Crowell Publishing Company. Elmira Advertiser. Clowell Publishing Company. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany Herald. Albany	State, city, or town, and publication or publisher reporting price.	Price of news-print paper per hundred- weight.	Remarks.
Brookly Eagle   2.65	New York:	l	
Brookly Eagle   2.65	Albany Harald	\$2, 10 9.75	Under contract.
Brookly Eagle   2.65	Amsterdam Evening Recorder	2.00	Delivered.
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Sanduaky Register 1.9885 Toledo Express 2.424 Youngstown Telegram 1.99 Dishaboma: Muskogee Times-Democrat 2.09 Pennsylvania: Allentown Item 2.09 Allentown Morning Call 2.40 Altona Tribune 2.25 Bradford Era 2.10 Bradford Era 2.20 Bradford Era 2.20 Bradford Evening Star 2.75 Easton Free Press 2.10 Gitt and Geesy, York 2.15 Harrisburg Patriot 1.95 Harrisburg Telegraph 1.95 Harrisburg Telegraph 2.00 Johnstown Tribune 2.00 Johnstown Democrat 2.00 Johnstown Democrat 2.00 McKeesport Dally News 2.00 Philadelphia Press 2.00 Philadelphia Inquirer 1.90 Pittaburg Leader 2.00 Philadelphia Inquirer 1.90 Pittaburg Leader 2.00 Philadelphia Inquirer 1.90 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Philadelphia Inquirer 1.90 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg Leader 2.00 Pittaburg	Marietta Journal	2.75	Car lots.
Youngstown Telegram	Sandusky Register	1.9885	Contract to January, 1908.
Muskogee Times-Democrat. 2.40 Oklahoma City Oklahoman. 2.09 Pennsylvania: Allentown Item. 2.60 Allentown Morning Call. 2.40 Altoona Tribune. 2.25 Bethlehem Times. 2.10 Bradford Era. 2.20 Bradford Evening Star. 2.75 Easton Free Press. 2.10 Gitt and Geesy, York 2.15 Harrisburg Petegraph 1.95 Harrisburg Telegraph 2.00 Johnstown Tribune. 2.20 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johns	Toledo Express	2.424	Delivered. Contract commencing May 1.
Muskogee Times-Democrat. 2.40 Oklahoma City Oklahoman. 2.09 Pennsylvania: Allentown Item. 2.60 Allentown Morning Call. 2.40 Altoona Tribune. 2.25 Bethlehem Times. 2.10 Bradford Era. 2.20 Bradford Evening Star. 2.75 Easton Free Press. 2.10 Gitt and Geesy, York 2.15 Harrisburg Petegraph 1.95 Harrisburg Telegraph 2.00 Johnstown Tribune. 2.20 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johnstown Democrat. 2.00 Johns	Zanesville Times-Recorder	1.90	Under 5 years.
Oklahoma City Oklahoman.  Pennsylvania: Allentown Item	Uklahoma:	1	
Pennsylvania: Allentown Item	Oklahoma City Oklahoman		F. o. b. mill, under contract beginning January 3
Bradford Era	Pennsylvania:	1	
Bradford Era	Allentown Morning Call	2.60	Contract made in May
Bradford Era	Altoona Tribune	2. 25	Under contract expiring April 1, 1908.
Oll City Derrick. 2 25-2 50 No contract. Philadelphia Press. 2 00 Under contract. Philadelphia Inquirer 1.90 Do. Pittsburg Leader 5 00 Do.	Bethlehem Times	2.10	Under contract.
Oll City Derrick. 2 25-2 50 No contract. Philadelphia Press. 2 00 Under contract. Philadelphia Inquirer 1.90 Do. Pittsburg Leader 5 00 Do.	Bradford Evening Star	2.20 2.75	Price in October.
Oll City Derrick. 2 25-2 50 No contract. Philadelphia Press. 2 00 Under contract. Philadelphia Inquirer 1.90 Do. Pittsburg Leader 5 00 Do.	Easton Free Press	2. 10	Under contract f. o. b. Easton.
Oll City Derrick. 2 25-2 50 No contract. Philadelphia Press. 2 00 Under contract. Philadelphia Inquirer 1.90 Do. Pittsburg Leader 5 00 Do.	Harrishurg Patriot	2.15	Under contract expiring in August.
Oll City Derrick. 2 25-2 50 No contract. Philadelphia Press. 2 00 Under contract. Philadelphia Inquirer 1.90 Do. Pittsburg Leader 5 00 Do.	Harrisburg Telegraph	1.95	Under contract.
Oll City Derrick. 2 25-2 50 No contract. Philadelphia Press. 2 00 Under contract. Philadelphia Inquirer 1.90 Do. Pittsburg Leader 5 00 Do.	Harrisburg Star-Independent	2.20	Do.
Oll City Derrick. 2 25-2 50 No contract. Philadelphia Press. 2 00 Under contract. Philadelphia Inquirer 1.90 Do. Pittsburg Leader 5 00 Do.	Johnstown Tribune	2.00 2.10	
Oll City Derrick. 2 25-2 50 No contract. Philadelphia Press. 2 00 Under contract. Philadelphia Inquirer 1.90 Do. Pittsburg Leader 5 00 Do.	Lancaster Examiner	2.00	F. o. b. Lancaster, under contract.
Pittshire Leader 1.90 Do.	McKeesport Daily News	2.00	Under contract expiring September 1.
Pittshire Leader 1.90 Do.	Philadelphia Press	2.00	
Potsville Daily Republican 2.15 Reading Times. 2.65 Under contract, delivered. Freight, 18 to 28 cent	Philadelphia Inquirer	1.90	Do.
Reading Times 2.65	Pottsville Daily Republican	1.90 2.15	
	Reading Times	2.65	O 11701 Outstand don Loron T. Torbird to an an encourse

a Less 4 per cent.

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itate, city, or town, and publication or publisher reporting price.	Price of news-print paper per hundred- weight.	Remarks.
Pennsylvania—Continued.		VV. 1
Scranton Tribune	42.20 1.95	Under contract expiring February 1, 1908.
Williamsport News		Under contract expiring July 31. Contract beginning March 1.
Williamsport Sun	1 2.05	Under contract expiring in April.
Williamsmort Consta Dellatin	2.60	Quotation in September.
Williamsport Gasette-Bulletin	1. 92	Until July, 1907.
Denison Herald	2. 668	Under contract expiring in July.
El Paso Daily Times	2 65	
Fort Worth Telegram	1.90	Under contract ending January 1, 1908, f. o. b. mill.  Ontract for two years expiring July 1, f. o. b. mill.  F. o. b. New England mill under contract.  F. o. b. mill.
Galveston Tribune	1. 88 1. 90	F o b New England mill under contract
Houston Post	1.88	F. o. b. mill.
Houston Chronicle	2.15	Beginning in February.
San Antonio Gazette	2. 27 1. 88	At mill, under contract expiring in December.
tah:	1.00	At min, under contract expiring in December.
Descret News (Salt Lake)	1.85	F. o. b. mill, under 2-year contract expiring Febru
Salt Lake Tribune	2. 15	ary, 1908.  Price at mill under contract beginning July
		Freight, 50 cents.
Salt Lake Herald	2.15	F. O. D. New York mill. Freight \$1.06.
William Glassman, Ogden	3. 05	Delivered.
Burlington Free Press	2.09	
Burlington Daily News Described Valley Times (Wilming-	2.15	Under contract for 1907.
Deerfield Valley Times (Wilming-	a 2. 50	F. o. b. mill, under 1-year contract expiring Janu
ton). St. Albans Messenger	2.35	ary 15, 1908. Under contract expiring in spring of 1908.
irginia:	2. 14	Paginaing December 1, 1006
Bristol Herald-Courier Newport News Daily Press	2. 14	Beginning December 1, 1906. Delivered under contract for 1907.
Newport News Daily Press Norfolk Ledger Dispatch Richmond News Leader	2. 10	Under contract.
Richmond News Leader	2.10	_
Roanoke Evening World	2. 15	Do.
- · · · · · · · · · · · · · · · · · · ·	2. 15	F. o. b. Norfolk, under 3-year contract expiring June 30, 1908.
est Virginia:		,
Clarksburg Daily Telegram Fairmont West Virginian	2.25	Chinment in fall of 1007
Parkersburg State Journal	2.60 2.42	Shipment in fall of 1907.
Wheeling News	1 2.00	Constation for 1995
w neering News	2.50	Quotation for 1905.
Wheeling Register	2.05	
Seattle Post-Intelligence	3. 20	F. o. b. Seattle, beginning March 16.
leconsin;		·
Eau Claire Leader	2.00	F. o. b. Eau Claire. Freight, 211 cents.
Janesville Gazette		Delivered under contract. F. o. b. La Crosse until August 1.
La Crosse Chronicle	2.574	F. o. b. La Crosse, under contract for year endin
		June, 1908.
Madison State Journal	2.05	
Milwaukee Journal	1.90	F. o. b. Milwaukee, under contract expiring Fell ruary 1, 1908.
Oshkosh Daily Northwestern	2. 25	1 dai y 1, 1500.
Racine Journal	2. 15	Delivered until September 1.
yoming:	١	4.4 411 3
Cheyenne Tribunehode Island:	2.10	At mill, under contract for 1907.
Newport Daily News	2.40	Under contract for calendar year.
Providence Tribune	2. 20	Under 5-year contract expiring February 29, 191
Providence Journal	; 2.10	Under 5-year contract expiring January 1, 191 Price adjusted every November.
Providence News Publishing Co	2.00	Contract.
outh Carolina:		
J. C. Hemphill, Charleston Columbia, The State	2.15	D-11
	2. 20	Delivered under contract expiring June 30. Freigh
Columbia, The Source		30x cents
outh Dakota:	1	38 cents.
•	2.90 2.59	Delivered.

a Less than 2 per cent.

## 1906—Continued.

State, city, or town, and publication or publisher reporting price.	Price of news-print paper per hundred- weight.	Remarks.
<del></del>		
Tennessee:		
Chattanooga News	\$2.05 2.50 2.60	Contract canceled in April, f. o. b. Chattanoogs under short-time contract.
Knoxville Sentinel  Memphis Commercial-Appeal  Nashville American	2. 15 2. 00 2. 12)	
General average price for 288 of the publications for which quotations are given.	2. 28	

#### 1908.

a \$2 20	Price f. o. b. mill under contract beginning May 1,
- 42.20	1908; freight, \$1.89.
2.60	Soft fold.
2. 45	Roll.
2. 57	Price f. o. b. mill quoted in spring of 1908.
2. 62	Price delivered under contract ending Jan. 1, 1909.
	about \$2.21 at mill.
2 60	Under contract.
3.00	Officer Constants
2.00	Under 3-year contract beginning in May, 1907.
2.00	
2.50	Contract price f. o. b. mill for 1908.
	·
2. 50	Under contract expiring Dec. 1.
2.50	Under contract beginning May 1.
2. 25	Under contract ending in December: quotation for
2.00	1909. Under contract beginning in Aprik
2.00 h 2.60	Price f. o. b. Meriden under contract beginning
V 2.00	Feb. 1.
2.55	Under contract for 1908.
2. 374	
2.70	Under contract commencing in August, 1907.
	Under contract beginning January 1.
2.80	Under contract for one year beginning August 1.
	1907.
2 80	Under contract expiring in December, price deliv-
2.00	ered; freight rate, 34 cents.
2, 85	
2. 85	F. o. b. Macon, under contract for 1908.
2.60	•
1	
	Under contract expiring November 1.
	Dellares dura des contenet
	Delivered under contract.
	Delivered; price on open market.
2, 70	Delivered under contract expiring in July.
2, 40	F. o. b. Springfield. On open market; freight
1	rate about 16 cents.
	Beginning August 1, 1907.
	Under contract expiring in August.
2. 41	Contract for 1908.
9 60	Delivered under contract expiring in August.
	Delivered, beginning March 1.
	Open market.
2.06	Under contract for year ending August 1, 1908.
2. 45	Under contract.
	2. 45 2. 571 2. 62 3. 60 2. 50 2. 50 2. 50 2. 50 2. 50 2. 55 2. 25 2. 370 3. 00 2. 55 2. 377 3. 00 2. 585 2. 60 2.

a Net.

b Net cash 30 days.

State, city, or town, and publication or publisher reporting price.	Price of news-print paper per hundred- weight.	Remarks.
Iowa:		
Burlington Hawkeye	\$2.56	Under contract expiring in December.
Council Bluffs Leader	2.50	Under contract expiring February 1, 1909.
Creston Advertiser	2.75	Under contract expiring September 1; delivered
	l .	freight 20 cents.
Davenport Democret	2.50	Under contract ending in August.
Des Môines Capitol	2.50 2.50	Under contract expiring February 1, 1909. Under contract expiring September 1.
Dubuque Telegraph Hereld	2.49	Do.
Sioux City Tribune	2.50	Under contract expiring in August.
Dubuque Telegraph Herald Sioux City Tribune Waterloo Times Tribune	2.473	Under contract ending in October.
Kansas.		
Atchison Globe	2.32	Delivered under contract.
Codowille Journal	2.85 2.57	Quotation in May. Half-car lot delivered.
Atchison Globe Clay Center Republican Coffeyville Journal W. P. Feder, Great Bend Lole Register	3. 15	No contract.
		Carload lot bought in April.
Geo. W. Marble, Fort Scott	∫ 2.62 2.32	Under contract expiring in September.
Geo. W. Marbie, Foll Scott	:1 2.35	Net Wisconsin mill quotation.
Topeka Daily State Journal	2.60	Under contract for 1909 f. o. b. Topeka, price (mill \$2.29.
Wichita Beacon	2.42	
Desha Breckenridge, Lexington Louisville Evening Post Louisville Herold	2. 40	Under contract to Jan. 1, 1910.
Louisville Evening Post	2. 20	Do.
Louisville Herold	2. 42	F. O. D. Herold; contract.
Louisville Anzeiger	2.75	No contract.
Owensboro Messenger	2. 621 2. 621	Under contract for 1908.
Maine:	2	n . s name
Bangor Commercial	2.50	F. o. b. Bangor.
Biddeford Daily Journal F. B. Nichols, Bath	2. 60 2. 75	Quotation in May. Under 2-year contract beginning in summer of 1907
Portland Evening Express	2. 50	Contract expires 1911; price adjustable December
Portland Argus	2. 40	of eachjyear.
Maryland: Baltimore American Edward Ranie, Baltimore	2. 50	
Edward Ranie, Baltimore	2.90	Under contract for 1908.
Massachusetts:	1	1
Boston Journal Fitchburg Sentinel	2. 50	Do.
Fitchburg Sentinel	2.75	Do.
Lowell Courier-Citizen	2.60	Under contract beginning Apr. 1.
Lynn Item	2. 80	Under contract for 1908.
New Bedford Standard North Adams Transcript	2.50	Under contract expiring in June. Under contract to Jan. 31, 1909.
Pittsfield EagleSpringfield Union	2.20	Under contract for 1908.
Springfield Union	2. 30	F. o. b. Springfield; under contract for 1908. Price \$1.80 at Canadian mill.
		\$1.80 at Canadian mill.
Springfield Republican	2.00	Under contract expiring July 1.
Taunton Herald-News	2. 41 2. 60	Quotation for new contract. Under contract for 1908.
Taunton Gazette.		From October 17, 1907.
Worcester Post	2.40	Under contract expiring December 1.
Michigan:	ł	
Adrian Daily Telegram	2.41	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
Benton Harbor News-Palladium Detroit Daily Abend-Post Detroit Free Press	2.60	Delivered under contract expiring in November.
Detroit Free Press	2. 35 2. 40	Contract expiring July 1. Under contract.
Detroit Free Press. Lansing State Republican	2.60	Contract for 1908.
Sault Ste. Marie Evening News	2.60	Do.
Minnesota:		Hades contract combine October 1 f a h Dudot
Duluth Evening Herald.  Duluth News-Tribune	2. 38 2. 38	Under contract expiring October 1, f. o. b. Duluti Delivered under contract expiring September 1.
Minneapolis Journal	2.45	Under contract beginning November 1, 1907.
St. Paul Volkzeitung.	2. 07	Under contract beginning November 1, 1907. Under contract explring June 10.
Minneapolis Journal St. Paul Volkzeltung. Winona Independent. Winona Republican-Herald.	2. 35	Quotation (delivered).
Winona Republican-Herald	2. 40	Under contract expiring October 1.
Mississippi: Jacksonville Daily News	2 80	Contract expiring February 1, 1909.
Meridian Morning Dispatch	2. 89 2. 70	COMMENTS CONTROL & CONTROL & ST VALA.
Missouri:	, , ,	Contract anding in Tuly
Joplin News-Herald	2.20	Contract ending in July. Renewal price. Contract i. o. b. mill.

State, city, or town, and publication or publisher reporting price.	Price of news-print paper per hundred- weight.	Remarks.
Missouri—Continued.		
Kansas City Journal	\$2.40 2.634	Contract beginning September, 1907. Under contract expiring August 1.
Sedalia Democrat-Sentinel	1 2.80	Onotation for new contract.
St. Joseph News-Press	2. 45 2. 10	F. o. b. St. Joseph on contract beginning June 1. Under contract.
Anaconda Standard	2.36	At mill Missouri River, freight rate 95 cents.
Butte Miner Great Falls Tribune Nebraska:	2. 20 2. 27 ₃	Contract beginning October 1.
Grand Island Independent Lincoln Daily Star		Price in February; no contract. F. o. b. mill, under contract, expiring August
Omaha World Herald	2. 30	freight, 23 cents. Price at mili.
Keene Sentinel Manchester Mirror and American	2. 50 2. 65	1
Manchester Union	{ 2.00 2.45 2.60	Contract expiring in August. Quotation for renewal. Contract for 1906.
New Jersey: Camden Post-Telegraph	2.65	
Elizabeth Journal	2. 60 2. 50	
New Jersey Freie Zeitung (Newark). Paterson Guardian	2.60	
New Mexico: Albuquerque Morning Journal New York:	1	F. o. b. Albuquerque, under contract for 1908.
Albany Herald	2.87	Car lots, f. o. b. Albany. Under contract.
Albany Herald Albany Argus Amsterdam Evening Recorder	2.60	Delivered.
Dingnamion ress	2 100	Contract for 1908. Under contract for 1908.
Brooklyn Eagle Crowell Publishing Co	2.50 2.43	Under contract for 1908. Canadian paper, under contract, f. o. b. Springfiel Ohio.
Elmira Advertiser	2.65	
Gloversville Leader		
Kingston Freeman Little Falls Evening Times	2.50 2.50	Beginning in September, 1907. Beginning in August. 1907.
New York Staats Zeitung New York Journal of Commerce	2. 45	
New York Journal of Commerce	2. 47½ 2. 50	Beginning September 1, 1907. Under contract beginning in September, 1907.
Olean Evening Herald Olean Morning Times Rome Sentinel Syracuse Post Standard	3.00	Chidat contract beginning in population, 1991.
Rome Sentinel	2.60	Under contract.
syracuse rost standard	2.50 2.55	F. o. b. Syracuse under contract. Under contract.
Syracuse Herald	) 990	Onotation from Canadian mill, L.O. D. Syracuse.
Syracuse Journal Troy Record North Carolina:	2. 40 2. 50	F. o. b. Syracuse, under contract for 1908. Under contract, f. o. b. Troy.
Asheville Gazette-News	3.00	Under contract for 1908.
Asheville Citizen	2.90	F. o. b. Asheville.
W. C. Dowd, Charlotte North Dakota:	2.90	
Grand Forks Evening Press Grand Forks Herald	b 2. 54	Delivered under contract for 1908. Under contract, delivered.
Grand Forks Times	2.58 2.51	Under contract expiring in August.
Ohio:	1	
Akron Beacon-Journal H. D. Campbell, Lime	9 45	Under contract. Ouotation delivered.
Cincinnati Enquirer Cleveland Wachta and Anzeiger	2. 50 2. 60	Quotation delivered. Under contract. Under 5 year contract expiring Jan. 1, 1910; printed yearly.
East Liverpool Evening Record	2. 50	Beginning July, 1907.
Manefield News	0.55	Beginning July, 1907. Contract expiring in August.
Sandusky Register	2. 42½ 1. 99	Contract expiring in May, 1909. Contract.
Toledo Express. Sandusky Register. Youngstown Telegram. Zanesville Times-Recorder.	2. 35 2. 60	Delivered, contract expiring July 1.
a Lace 2 nor cont	•	b Lose 2 nor cent.

a Less 2 per cent.

b Less 3 per cent.

State, city, or town, and publication or publisher reporting price.	Price of news-print paper per hundred- weight.	Remarks.
Oklahoma: Muskogee Times-Democrat	\$3.03	Under contract.
Pennsylvania: Allentown Morning Call	2, 50	Under contract beginning May 15.
Altoons Tribune	4 2 50	New contract.
Albert J. Barr, Pittsburg	2.50 2.20	Less 3 per cent 30 days. Under 5-year contract expiring in 1910.
Bethlehem Times	2.60	Under contract for 1908.
P. C. Boyle, Oil City	2.56	Do. Quotation in April.
Bradford Era		Quotation in April. Beginning in September, 1907.
Bradford Era. Easton Free Press. Gitt & Geesy, York. Harrisburg Patriot. Harrisburg Star-Independent. Harrisburg Telegraph. Johnstown Democrat. Johnstown Tribune Lancaster Examiner.	2.65 2.60	F. o. b. Easton, under contract for 1908. Beginning in August, 1907.
Harrisburg Patriot	2.50	Under contract commencing December, 1907.
Harrisburg Star-Independent	2.60 2.50	Under contract for 1908.
Johnstown Democrat	2. 55	Do.
Johnstown Tribune Lancaster Examiner	2.60 2.60	Do. F. o. b. Glens Falls, freight paid; contract for 1908.
		Under contract commencing Sept. 1, 1907.
McKeesport Daily News	2.50 2.20	Under contract.
Pittsburg Leader Pottsville Daily Republican Scranton Tribune	2.65	
Scranton Tribune	2. 65	Under contract, delivered, freight 18 to 20 cents. Under contract for 1908.
Williamsport Gasette-Bulletin Wilkesbarre Times	2. 35 2. 50	Under contract made in July, 1907. Under contract beginning Aug. 1, 1907.
Newport Daily News	2.75 2.50	Under contract for calendar year. Under 5-year contract expiring February 29, 1912
<b>Do</b>	2.50	changing prices each year. Under 5-year contract expiring January 1, 1910 prices adjustable every November.
Providence News Democrat	2. 75	Contract.
South Carolina: Columbia State	2. 70	Delivered under contract beginning July 1, 1907, freight 38 cents.
J. C. Hemphill, Charleston	2.70	Under contract for 1908.  Delivered.
Sioux Falls Daily Press	2.90	No contract; price per ream.
Chattanooga News	2. 77) 2. 62) 2. 62)	Under short-time contract.
Knoxville Sentinel Nashville American	2. 024 2. 624	Delivered under contract for 1908. Under 1-year contract expiring February 15, 1909.
Texas: Dennison Herald	2. 852	Delivered under contract expiring in July; freight
El Paso Daily Times	3, 20	64 cents. Under contract expiring November 1.
Fort Worth Record	2. 35	Six months' contract beginning July 1, f. o. b. mill
	2. 25 1. 80	Under contract expiring July 1, f. o. b. mill.
M. E. Foster, Houston	1.80	Quotation for a year's contract. Under contract expiring July 1, f. o. b. mill. F. o. b. Canadian mill, under contract expiring July 1, equal to \$2.10 New York mill. Quotation for renewal at Canadian mill.
	1. 95 2. 30	Unotation at american mill.
Fort Worth Telegram	2. 42 2. 37	Under contract for 1908; price at mill.  F. o. b. New England mill under contract begin
Houston Post	2. 25 2. 23	ning in April.  F. o. b. mill, under contract.  At mill under contract expiring in December.
Waco Times-Herald	3.00	Under contract expiring Nov. I.
Utah: Descret News (Salt Lake)	1 3.20 2.25	Renewal quotation.  F. o. b. mill under contract beginning June 1
· · · · ·		freight \$1 05
William Glassman Ogden	3. 20 2. 05 2. 65	Delivered price on new contract. F. o. b. mill; new contract price made in May. F. o. b. Salt Lake, under 2-year contract beginning July 1, 1907; mill price, \$2.15.
Vermont:		
Burlington Free Press	2.60 2.70	Under contract expiring in October. Under contract for 1908.

a Less 3 per cent.

#### 1908—Continued.

State, city, or town, and publication or publisher reporting price.	Price of news-print paper per hundred- weight.	Remarks.
Virginia:		
•	1 \$2.71	September 1, 1907, freight, 30 cents.
Bristol Herald-Courier	2.85	Quotation for July delivery. Delivered under contract for 1908.
Newport News Daily Press	2.70	Delivered under contract for 1908.
Norfolk Ledger-Dispatch	2.60	Under contract for 1908.
Richmond News-Leader	2.50	
Rosnoke Evening World	2.80	Under contract for 1908.
Roanoke Evening World Virginia Pilot (Norfolk)	2.15	F. o. b. Norfolk, under 3-year contract expirits June 30.
Washington:	, 1	
Grays Harbor Washingtonian West Virginia:	3. 20	,
Clarksburg Daily Telegram	3.10	
Parkersburg State Journal	2.72	
•	( 2.51	Under contract for part of 1908.
Wheeling Register	2.38	Quotations.
• •	2. 42	Purchase on open market.
Wisconsin:	1	
Eau Claire Leader		Under contract expiring in August.
Janesville Gazette	2. 55	Under contract expiring Oct. 1.
Le Crosse Chronicle	2. 57	Under contract for year ending July, 1909, f. c. t
		La Crosse.
Madison State Journal		
Milwaukee Journal	2.30	Under contract f. o. b. Milwaukee.
Oshkosh Daily Northwestern		Under contract beginning in February.
Racine Journal	2.50	Under contract expiring Sept. 1; price at mill.
Wyoming:		
Cheyenne Tribune		At mill under contract beginning Jan. 1.
General average price for 215 of the publications for which quotations are given.	2.54	

The following table, presenting statistics relative to prices of paper, collected from 611 daily newspapers, classified according to circulation and distributed by States, lends interest to the average prices of paper already presented.

paper in spring of 1908, average price including and excluding freight, and neood pulp und news-print paper, papers grouped according to circulation, average price for selected years, also preference as to removal of tariby States. TABLE 9.—Number of daily newspapers reporting average price paid

	Number price spring	ธลืธ	opera No.	pund	and average idredweight,		F.	Freight		五元	How ship- ped.	Num	Number reporting and sverage price January 1.	porti	ag gr	1 sver Ja	age pr nuary	1. 1.	ad bu	er bu	ndrec	paid per hundredweigh		Remova of tariff.	# ~ E	1 -
state and cfreulation.	Total		Rolls		Sheets.		a	- 1	ه.		.stol .	1907	-	1906	-	0061		1897.		<b>8</b> 2	٠	1800	<u> </u>			i
	Number.	price.	Average	price.	A Y 618 g 6	Included.	Average prio	Not included	Average pric	Car lots.	Less than car	Number.	A versee.	Number.	price.	Number. A verage	price.	Number.	price.	Number.	price.	Number.	рисе.	Yes.	Not stated.	
United States.	611 \$2.0	67 418	얿	55 193	23	440	<b>12</b>	_ <b>2</b> _	\$2.77	88	25	254	8	58 23	8	261 28	21 143	엻	8	23.	2	23	8	436		8
100,000 and over 50,000 but less than 100,000 10,000 but less than 50,000 5,000 but less than 10,000. Less than 5,000	250 25 25 25 25 25 25 25 25 25 25 25 25 25	28 478 87 79 87 115 87 70 115 87	લલલલલ	857.788 857.788		92 23 23 23 23 23 23 23 23 23 23 23 23 23	44444 88 <b>3</b> 86	: : : : : : : : : : : : : : : : : : : :		261112	-4-8	25554 44444	25823	~5888 999999	33882	~ 2828 44444	28282	-:01:00 -:01:00	82887	46852	<b>2323</b> 8	ಬಹಹ-ಸ	82828	23 T 6 25		385au
Alabama	6 2.8	88	2.6	20	8 28	-	2,	-	3.45	4	~	20	2.36	20	\$	1 2	8	1 2	8	2	8	-:	:	-	   <del>   </del>	-
10,000 but less than 50,000 5,000 but less than 10,000 Less than 5,000		:			3,29		9444 852	; ;		99	(A)	444 -		\ <del></del>		T	8	લ	8	- F	8	-	<del>  : :   -</del>	000	<del>                                     </del>	l : :=
ATLKODB	4 .	3 8		3   8 :	<u>: </u>	<u>'   '</u>		:		٠. ٠		- -		•   · -     ·		<u>: </u> :	$\frac{\mathrm{i}}{\mathrm{i}}$	#	$\dagger \dagger$	:	1	<u>: </u> : -	$\dagger$	;┼,	늮.	: 1
Less than 5,000.	4 4	8 8	2 4	3 28 5 78	1 3.00	<b>-</b> :	3	2	2.70		-	- 6	4 4	 	8 8	<u>: :</u> : :	<u>:</u>	1 2	8				: :		-	: -
Less than 5,000.	2 2.7	26 21	1 2.5	10 1	1 3.00	: *	3.14	. 2	2.73 8.98	1 01		2 6	2.33 3.15	4 4	8 8	. 6	ğ	1 2 1	8 8	-			: :	. 6	: =	
60,000 but less than 100,000. 5,000 but less than 10,000. Less than 5,000.	444	288	444	888	8.21	<b>-</b>	4 44 44 88 85		80.6	- 0	-	44%	825 825	: co	88	: : oi	2	24	88	<b> </b>				œ	<u>:                                   </u>	ı :- :

TABLE 9.—Number of daily newspapers reporting average price paid for paper in spring of 1908, average price including and excluding freight, and average price for selected years, also preference as to removal of tariff on wood pulp and news-print paper, papers grouped according to circulation, by States—Continued.

	Number price spring	er of pape p per h ng of 1906.	bepers hur 908.	and a ndredv	Number of papers and average price per hundredweight, spring of 1906.		£	Freight.		How ship ped.		Number reporting and average price paid per hundred weight	repor	ting a	o pi	erage I Januar	orice 1 y 1.	peld 1	Ē.	en pari	d wei	gpt	Removal of tariff.	OVEL IA.	
State and circulation.	Total		Rolls.		Sheets.		.9		.0		.8301 7	1907.	= 	1905.	2	.0061	1897		<b>8</b>	<b>3</b> 8	1860.	9			i
	Number.	price.	Average	price.	A verage price.	Included.	Average pric	Not included	Average pric	Car lots.	Less than car	A verage	Number.	A verage	Number.	A verage.	Number.	A verage price.	Number.	А v е г в g е .	Number.	A verage price.	Yes.	No.	
Colorado	2	4	<u> </u>	- <del>2</del>	<b>53</b> . 26	100	<b>\$</b> 3.04	2	2.37		- <del>`</del>	4 \$2.38	es	<b>\$2.3</b>	~	\$2.21	_ <u>;</u>		<u> </u>	Ī	<u> </u>	•	— <del></del>	<u>:</u>	8
10,000 but less than 50,000	01 m	28.28	99	182	3.25	-64	3.14		88	C3 63	:::	44 44 88	87	88	87	44 451							4	 	
Connecticut	15 2.	8	12 2.	~ 	28	2	2.50		i		<u></u>	15 2.11	13	2,38	90	2.16	·	2.16	8	2.13		8	=		4
10,000 but less than 50,000. 5,000 but less than 10,000. Less than 5,000	-000   -000	888	0000 0000	288	23	2.40	25.6					4444	46.0	829		38.28	-4-	22.65	-01	88	<b>-</b> : :	8 ::		<u> </u> 	:
Delaware	-2	8		8		_	2.60	<u>:</u>		-		1 2.10		2.30	-	2.75	_	30	-	25.50		3.13	<del>-</del>	- ÷	:
10,000 but less than 50,000	1 2	8	24	8		-	2.60			-	-	1 2.10	1	2.30	-	2.76	-	2.30	-	2.50	-	8.13	-	:	1:
District of Columbia	6	8	7	8	- <u>i</u>	69	35	<u>:</u>	-	~	:	1.96	77	2.30	-	2.10	_ <del>:</del>		<u>:</u>	-	$\frac{1}{1}$	<u> </u>	<u>-</u>	:	-
10,000 but less than 50,000	69	8	4	8		69	2.60			60	-	2 1.95	2	5.30	-	2.10	Ė		<u> </u>				-	<u> </u>   :	-
Florida	<u>6</u>	28	7	:		69	<b>2</b>	<u> </u>	:		- <u>-</u>	2.20		2.25	-	2.25	-	2.28	_	2.25	-	3.25	61	_	•
10,000 but less than 50,000	70	8	2	8		64	2.88	<u>  :</u>		67	-	2.20	1-	2.26	-	2.28	-	2.25	-	2.25	-	2.25	64		:
Georgia	5	8	3 2	2	2.88	~	9	~	2 88	~	~	5 2.19	9	2 88	-	2.08	<u> </u>	:	<u>:</u>	:	-	:	٠.	:	
50,000 but less than 100,000. 5,000 but less than 10,000. Less than 5,000	-00 -00	828	44	738	2.88		44 88		.2 88	-6		444	70	44 83	- :	28								<b>;</b> —	1:::

2 3 28 1 3
3.15 1 3.40
2.49 13 2.89 35
2.35 2.46 2.26 13 2.89 17
2 52 30 2.83 30
2 15 30 2 83 24 24 24 30 2 83 24 24 24 24 30 2 83 24 24 24 24 30 2 83 24 24 24 24 24 24 24 24 24 24 24 24 24
2.49 6 2.94 17
2.40 2.41 3.41 3.263 6.2.94 8
2.69 9 3.07 10
2.56 9 3.06 8
2.45 3 3.20 7
2.42 2.60 1 2.41 3 3.20 5
2.40 1
2.40 1
2.40 1 2.75 4
2.25 2.75 2.15
2.56 1 3.50 6 2
2.88 2.88 3.80 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.5

40197-No. 35-08-9

	Z	Number of price I spring o	of papers of 1908.	pers an hundr 8.	ers and average undredweight,	1t,	Ĕ	Freight.	ą.	 보웹 <i>및</i>	How ship-	Num	Number reporting	port	pus Su		rage I	ordoe 1 y 1.	1 pred	ec pr	peupu	sverage price paid per hundredweight January 1.		Remova. of tariff.
State and circulation.	F	Total.	œ.	Rolls.	Sheets	, , ,	i- <del></del>	1	_		.tots.	1907	\ .	1906.	60	1900	-	1897.		<b>1 25</b>	-	180		
	Number.	А <b>тета</b> ge . .еоћq	Number.	Average price.	Number.	price Included.	ohq əşarəvA	Not included	A verage price	Car lots.	Les ment seel	Number.	A verage price.	Number.	A verage price.	Number.	A verage price.	Number.	A verage.	Number.	.eohtq   .nedmuN	A verage	¥68.	.oV
Mussachusetts	8	25.50	8	22.	3	88	8	48	2.2	8	~	24	8	8	. 18	일 일	92	ි සූ	<b>99</b>	2	8	8	82	. 🕶
100,000 and over	-400gr			-44444 8888	~ cd	-610004		88888	9.				28888 88888	-4-00	35555		88288	m   m m m	2 883	તાં લાંલાંલાં - જજજ	272	66.69 7.871		90
Michigan.	8	2.58	<b>8</b>	2.47	6 2		ci -	88	2.58	18	49	8	2.14	. 91	. 22	15	8	- 2	2	4	- <u>-</u> -	3.74	<b>22</b>	~
10,000 but less than 50,000. 5,000 but less than 10,000. Less than 5,000.	446	448 848	448	848	69	8 44H	446	348	6. 58	77=	ص :	4.65   4.44	28E	400	28E	∾–•	888	~- ~	282	6161	88	3.74	200	
Minnesota	2	2.53	œ	2.44	4 2	71 10		-T	2.80	2	84	12 2.	= :	10 2.	. 27	6	-0.	- <b>.</b> -	8.		88	3.47	2	_
50,000 but less than 100,000 10,000 but less than 50,000 Less than 5,000	440	444 442	444	448	4	244	440	# <b>3</b> #2	2.80	44	64	4.0 4.0	ននេង	444	67.2	01.44 1.04	2023	000 01	88	04 m	88	3.47	64.4	-
Mississippi	8	3.05	-	2.80	1 3.	20	್	.: 8		-	-	2	8	1 2	30	1	2.06	<u>:</u> :	i	$\frac{\cdot}{1}$	$\frac{\cdot}{\cdot}$	<u> </u>		
5,000 but less than 10,000		8.8 8.8	-	2.80	1.00	.83:	88	888		-	:-	 	88	- i	8	7	2.05	<del>                                     </del>						111
Missourf	15	2.64	2	25.50	20	88	64	61 4	2.86	11	•	13	. 37	 	230	 	.8	3 1.	6.	ci m	8	8	6	~
100,000 and over 10,000 but lose than 50,000 1,000 but lose than 10,000 1,ees than 6,000	444	4822 8223	<b>6</b> 463	8335 8335	e	2 2 2 2	9999	288 288 1 288 3 1 2	2 50	Ø 4 21 23		uauc uuuu	<b>4</b> 5558	000-0	4885	didi :	<b>-</b>	n- :	5 S	લંજ	<b>58</b>	≈ <del>.</del>	C3 * 0	CR-

Montana	4	8	2	76 2	3.23	7	3.30	2	88	3 1	4	9.60	7	2.60	1 2	8	1 2	:: 88	<u>:</u>	:	:	. 14		•
10,000 but less than 50,000. 5,000 but less than 10,000. Less than 5,000.	4-4	858 :	44 44	38	3.23		3.15	4 6	98 3			-144 888		2.60	-	980	4	28						
Nebraska	17	16	7	20	3 3.13	8	2.87	 6	88	4	<b>*</b>	2.52	100	2.46	~	1.88	-4	10	જ	1 00	<b>4</b> 8	*	-:	_
10,000 but less than 50,000. 5,000 but less than 10,000. Less than 5,000.		588 388	oi oi	3 8	3.2	-8	22.28		8 8		- m	2 2 23	- 8	4 4 3	64	88		1 : 1	00	1::1	8			1 : : :
Nevada	-	2.60	÷	<del>-</del>	1.2.60		i	-1	8				-	2.05		+	÷	÷	<u>:</u>	:		_	_	.•
Less than 5,000	-	2.60	:	'-   :	2.60	!		1 2	8	:			-	2.05			<u>:</u>   <u>:</u>			<u>:</u>   :		-		
New Hampshire	5	2.56	4	16	1 2.95	4	2.51	_:	:	1	1 5	2.20	4	2.40	8	2.33	2 1.	8	:	:	1.80	•		•
10,000 but less than 50,000 5,000 but less than 10,000 Less than 5,000		9538	444	8538	2.95	- m	2.68			8		-:44 838	~	9.2 37.8	-01	88	:d	35		1::1	1.8			
New Jersey	18	2.60	16 2.	- 64	3.38	17	2.57	3.	. 87	15 - 3	3 18	211	7	2.24	. ``.	2.30	6 2	33	2.51	3	3.07	2	-	4
50,000 but less than 100,000. 10,000 but less than 50,000. 5,000 but less than 10,000. Less than 5,000	-626	8228	55555 7020	ខ្លងនម	2 3.38	6.9	2. 2. 2. 2. 2. 3. 62. 33.			m m		25.64	-04r	44444 4888	-0.00	4144 528 688 	ei eiei mei	8 88	1 2.88 1 1.90 1 2.75	238: 88	88 88	900	:	[ <del></del>
New Mexico	63	3.38	3.	8	3.45	-	3.30					3.28	-	2.95	:		<u>:</u>	-:				~	÷	٠
Less than 5,000	63	3.38	1 3.	8	1 3.45	-	3.30	  -  -		2	-	3.26	-	2.95					1			(4		, .
New York	19	2.60 5	51 2.	52 10	, 2.99	3	3.56	2	2.84	15	8	2.17	25	2.24	8	2.22	20 2.	06 12	2.50	8	8 8	æ	6	ន
100,000 and over. 5,000 but less than 100,000. 1,000 but less than 50,000. 5,000 but less than 10,000. Less than 5,000.	- 8118	88825 212	- <b>899</b> 5	88888	1 2.80 9 3.01	-47500	44444 88488	رم در	35	11.3	8153	8898	82283	2222	440¥	22.03 23.15 23.15	444	8272	8998	9459	8888 8888	ಜವನಹ		
North Carolina	9	2. 92	4 2.	23	3.30	2	2.88	1 3.	. 10	4	2 6	2.60	2	2.39	8	2.28	2		:			•	<del>-</del>	
10,000 but less than 50,000 5,000 but less than 10,000. Less than 5,000		3.68	666	2888	2 3.30		44.44 38.88		. 10		: - 2	29.99 38.89		8238 8238	-69	88	લલ	: : :						
North Dakota	-	2 64	1 2	35	- :	-	2.64	_ <u>: </u>		-	-	2.46	:				-	$\frac{\cdot}{\cdot}$	- :			-	-	٠,
5,000 but less than 10,000	=	20.5	1 2	<b>3</b>	_	<b>-</b>	2.64	_	-			2.48			_			-				-	-	

TABLE 9.—Number of daily newspapers reporting average price paid for paper in spring of 1908, average price including and excluding freight, and average price for selected years, also preference as to removal of tariff on wood pulp and news-print paper, papers grouped according to circulation, by States—Continued.

a -	ı	Not stated.	13	~ : ² 2	81	:	8		16	- M40	61	
Removal of tariff.	!	oN	2	- 0	_;				~	<u> </u>	:	
8 B		Yes.	\$	277	2		-	-	\$	-4458	10	-0
alght	.008	A verage.	<b>3</b> . 16	8358 8358	-		-		2.47	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3. 51	22.88
D.	=	Number.	· •	-0-0		1:::	:	Ĺij	•		N	_:
hundre		9 8 1 9 V A .eohq	22.23	4444 8835	:				2.09	8888	2.60	2.00
<b>2</b>		Number.	_=	755	_ :			1:	6	-  444	1	[ <u>:-</u> :
pad 1	1897.	A verage.	<b>22.</b>	- 4 4 8888			2.60	8	1.95	11111 81188 81188	2.24	여 연종
3 I.	-	Number.	7	4440	:		-	-	14		63	:
erage p Januar	1900.	A verage.	<b>\$2.11</b>	2882 2882	3.00	3.00	2.95	2.95	2.18	11444 8888	2, 13	9.1.9. 9.38.58
d sy	, <b>#</b>	Number.	72	ಚಾಜವ	-		က	3	22	481	60	
ang gup	9061	A verage.	2. 17	99999 8998	2. 79	852 852	3.27	3.27	23	88285	2.32	644 545
port	្ន	Number.	Ş)	8-10	*		69	60	7	-40H	60	
Number reporting and sverage price paid per hundred weight		A verage price.	26.26	8258	2.83	28.8	3.47	3.47	23	812808 812808	2. 18	888 888
Nan	25	Number.	28	01-08	•	-00	60	100	<b>-</b>	2000	4	-0-
	.stol 7	Less than ca	==		~		64	64	2		:	
How Ship ped.		Car lots.	28	2-1-10	4	-60	7	~	2	82.400	10	-00
	.0	ohq əyriəya	<b>£3.</b> 03	3.68	2.18	23 158	3.30	3.30	2.86		-	
ght.	1	Not included	64		-	- : :	60	8	က		_:	
Freight	-94	Average pric	<b>\$</b> 2.60	98888	3.31	24			9.60	82288 82288	2.67	828
	ļ	Included.	*	800m	\$	64			41	820000	•	-99
erage sight,	Sheets.	A verage price.	\$2.76	3.00	3.4	4.6	8. 54.	8. 8.	283	28.		
l av	8	Number.	8	- 88	4		60	~	23	23	:	
bundre 8.	Rolls.	A verage.	\$2.52	2522	2.75	2. E.	3.60	3.60	2.55	88238	2.01	644 828
r of papers and average per hundred weight, of 1908.	Ro	Number.	æ	21.00.73	*	-8	_	-	45	24748	-0	00.00
Number of price p spring of	Total.	A verage.	<b>22.</b> 63	4444 8288	3.14	25.61 25.24	14. 25.	3.48	2.61	88288	2.67	228
N B Y P.	Ę	Number.	19	41-0g	~	-04	4	4	98	44548	9	-00
	State and circulation.		Oblo	50.000 but less than 100,000. 10,000 but less than 50,000. 5,000 but less than 10,000. Less than 5,000	Oklahoma	10,000 but less than 50,000. 5,000 but less than 10,000. Less than 5,000.	Oregon	Less than 5,000	Pennsylvania	100,000 and over	Rhode Island	50,000 but less than 100,000 10,000 but less than 50,000 I ress than 5,000

South Carolina	5 2	74	4-2	74	1 2.7	- 92	4 2 74	_	2.75	*	-	-	2.38	2 2	8	2 - 2	<b>3</b>	1 1	<b>8</b>	÷	÷	<u>i</u>	8	_	-
10,000 but less than 50,000. Less than 5,000.	4 4	85	~ 6	85	1 2	75:	8 25 25 25	-:	2.75		:-	~4	88	44	28.28	44	83	[ <del>-</del>	8				01	-	l :-
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#### TARIFF ON SULPHITE FIBER.

KATAHDIN PULP AND PAPER COMPANY, Lincoln, Me., December 21, 1908.

Hon. J. R. Mann,

House of Representatives, Washington, D. C.

MY DEAR SIR: Replying to yours of December 9, I have no objection to your printing the statement which I had prepared for the Ways and Means Committee, if it would have any weight in relation to the decision on the tariff for sulphite pulp.

Since writing you on the 5th instant the importers of European sulphite have made a further discount in their prices, and the entire

industry is very seriously affected by it.

With kindest regards, I remain, Yours, very truly,

N. M. Jones.

KATAHDIN PULP AND PAPER COMPANY, Lincoln, Me., December 5, 1908.

Hon. James R. Mann,

House of Representatives, Washington, D. C.

My Dear Mr. Mann: I am in receipt of the six copies of Hearing No. 28 of the pulp and paper investigation kindly sent to me to Bangor by your direction. I wish to thank you for your thoughtfulness in the matter, and assure you that I appreciate it very much. I take pleasure in sending herewith a statement which I made up to present to the Committee on Ways and Means in Washington at the hearing, but was unable to attend, giving a few of my reasons why duties on sulphite fiber should not be reduced on Canadian product. I am also trying to put in writing my reasons why the duties on European pulp should be increased. As soon as I have them in

shape I will furnish you a copy of same.

The sulphite-pulp business has been having a very hard time during the past year, and between ourselves, we have all lost money, and for your information, I also inclose copy of letter received by me to-day from our western brokers, relating to the offers that are being made to the western mills on foreign sulphite pulp by brokers. At the prices quoted in this letter, if the sulphite mills in this country had to compete, we would either have to close our plants or go into bankruptcy in a very short time. I will not undertake to make any arguments in this letter. I simply feel that I would like to give you such information as I have at my command. If you care for further data in connection with this matter, I should be pleased to send it to you from time to time, as I believe that you are willing to give to our industry all the protection that we should have, and I for one do not feel that we are asking for more than we are entitled to.

With kindest regards, I remain,

Yours, very truly,

N. M. JONES.

NOVEMBER 20, 1908.

GENTLEMEN: We have been in hopes to hear from you right along regarding some proposals, either in unbleached sulphite or strong unbleached sods pulp, and we do not understand the reason for your silence. We have quite a few attractive offers at present.

We refer especially in the first place to our extra strong Mitscherlich unbleached

sulphite, which you know so well and which we quote at a price of \$2.021.

Another grade is our No. 33, which is also a Mitscherlich sulphite, and of a quality

between prime and secondary. We quote you at a price of \$1.82.

Should you be able to use a strong ordinary unbleached sulphite, but not prepared by the Mitscherlich process, please refer to our grade No. 41, which we quote you at \$1.724.

With reference to unbleached soda pulps, we call your attention to the following grades: No. 631 we quote you at a price of \$1.75; No. 629 we quote you at a price of \$1.70; No. 627 we quote you at a price of \$1.75.

If you are in for a very strong Kraft soda pulp, please refer to our grade No. 625, which we quote you at a price of \$1.95.

Should you need to make a very strong colored golden brown sheet, please refer to our grade No. 626, which we go a post for you at \$2.05.

grade No. 626, which we can get for you at \$2.05. Please note that this grade is very easy bleaching and perfectly clean. Of all grades, samples herewith inclosed.

Our terms are simply net cash thirty days from date of arrival of the goods at Baltimore. Prices for goods quoted to be per 100 pounds, air dry weight, i. e., 90 per cent absolutely dry pulp, gross weight for net weight, goods wrapped in burlap, ex. dock Baltimore, duty paid, and subject to being unsold.

Yours, very truly,

SCANDINAVIAN AMERICAN TRADING Co.

REASONS WHY DUTIES ON SULPHITE FIBER SHOULD NOT BE REDUCED ON CANADIAN PRODUCT.

#### [Statement by N. M. Jones.]

"The man who would be really benefited by free pulp would not be the American

consumer, but the Canadian producer."

The average cost of production in America over Canada is fully equivalent to the duty, and if American mills are only obtaining a living profit, or selling at cost or below, Canadian mills can supply to this market at a profit, if present low duty is Under conditions which have existed during the past year Canada could force the closing of our mills, as freights are about equal. Canadian farmers and timber-land owners not favorably located near mills that can consume their pulp wood and logs are allowed to put them into this country duty free, yielding large incomes to their owners.

In 1907 Canada sold to the United States, duty free, 650,000 cords of pulp wood,

which at \$5 per cord gave them an income of \$3.250,000.

Senator W. C. Edwards, who is one of the largest operating lumbermen and timber holders in Canada, stated in the Canadian senate at a sitting in May, 1908: He did not favor an abrupt stop to the movement of pulp and pulp wood from Canada to the United States. Senator Edwards also corrected the statement that the American timber supply had been exhausted.

If the Canadian supplies were cut off, the American mills would not immediately stop operations, but on the other hand the Canadians would find themselves without a market. He saw the agitation against the exportation of logs and pulp wood came from Canadian makers who wanted to get the price of their raw material reduced.

The senator made one statement which was a daring one in view of the popular idea as to the results of the prohibition of log exports from Ontario. He said that the province had lost by that action; that to-day a sound log on the shore of Georgian Bay was worth more than the lumber in that log after it was cut, owing to the fact that it cost less to export a sound log than the lumber, for when the log was in the American mill, the by-products other than lumber would pay the cost of transportation. In his opinion more lumber in Canada dies and goes to destruction in the forest each year than all such growth that is cut. Apparently, the senator would remove all restrictions on the export of forest products, but would make more stringent regulations as to logging operations.

A large amount of the wood supplied us from Canada has been an aid to their agricultural development. The farmers have had an assured and profitable income while clearing their lands, and this advantage will continue as long as we admit pulp wood

duty free.

The sulphite schedule with Canada should not be touched. Prices of sulphite have not materially advanced in eighteen years, while the cost of wood has advanced nearly 100 per cent and labor about 40 per cent. Prices have been kept down below a reasonable profit by the continual development of new mills in this country, and on account of the low duty, Canadian developments and competition and the competi-tion from Europe have prevented the mills of this country obtaining a fair or remunerative profit on their investments, notwithstanding many of them have owned their own timber.

The production of sulphite pulp has increased from 200 tons daily in 1890 to 4,500 tons daily in 1908 in the United States and now represents an investment of more than

\$25,000,000 in mills alone.

There is no sulphite pulp trust. The tariff on pulp has assumed a fictitious prominence in the minds of a few because of the unfounded talk about such a trust, and because of the mistaken supposition on the part of the public that there is a limitless supply of timber in Canada, and because of the further belief that to draw on this supposed immense supply will promote forest preservation in the United States, and for relief from the supposed exactions of the pulp trust it is proposed to remove the duty on pulp imported from Canada into the United States.

It is realized by few how low the duty now is on unbleached sulphite. amounts to less than 8 per cent ad valorem against an average for the entire dutiable articles of about 40 per cent. Since it is a specific duty, it does not recognize the value of the importation. It is the lowest from a percentage standpoint on an article we most need and that is abundantly produced in this country. Canada has been shipping to this country freely under the tariff, and probably all she would have shipped

if there had been no tariff.

There has been great activity in the sulphite pulp development in Canada, and mills have been built apparently as freely as in the United States. It seems doubtful if the removal of the present low duty would make any particular change in the rate of development of the Canadian industry. Since Canadian sulphite importations constitute less than 10 per cent of our normal production, it is questioned if it would have any material effect on prices. If it does not, there would be no material benefit to the consumer of paper, and the Government would lose nearly \$500,000 a year revenue; and it is fair to assume that all or a part of the duty would be added to the value of Canadian stumpages, or after the elimination of the American mills to any increase in the value of their product.

The removal of the duty would have an effect in this country chiefly on the lower grades, which are, under normal conditions, difficult to dispose of and which determine the profitableness of the sulphite pulp industry and the feasibility of using forestry methods in lumbering by the utilization of forest products unfit for lumber and from which the lower grades of sulphites are produced. Canada's production of sulphite

principally of the lower grade.

To reduce the price of our low grades of pulp would prevent so close a utilization of the timber as is customary now, and would postpone the day when conservative lumbering along forestry lines will be practicable.

If the American consumer of sulphite pulp desires the forest preserved, we must follow the lumberman, using with him material unfit for lumber, and we must be protected on the lower grades of pulp produced from such material; otherwise it will become a loss and waste and a loss to the Government in the value of its own timber from a national standpoint of the removal of the duty.

Forestry methods have begun to be adopted simply because the value of timber and the by-products of the forest are becoming high enough to warrant it. have a large amount of money invested in timber. Canadians in British Columbia get their timber for nothing and pay merely a carrying charge, which amounts to only about 1 cent per 1,000 feet per annum. They pay for the timber when they cut it (50 cents a thousand), and therefore have no material investment.

British Columbia timber, so far as it is held by private parties, is held on definite terms and periods. There is no advance in price to the limit holder, as it becomes no

more valuable, except as a holder may sell his license to someone else.

In Ontario, on the other hand, there are auction sales which fix the price of limits the government has to offer, and to whatever increased extent Canadian sulphite pulp is imported, to that degree will the industry of the United States, which is established on a certain basis of demand and a certain adjustment thereto to supply, be injured.

Further, it would limit the demand and infallibly lower the wages of the now wel-

paid mill labor, which includes several thousand men.

To repeat, if the removal of the duty would not affect prices in the United State: it would do no one good, and would deprive the Government of needed revenue. If it would decrease prices, it would be only to an extent which would not materially benefit the American consumer, but would tend to the destruction instead of the preervation of our forests, would work serious damage to American manufacturers and imperil the investments of many of them, and put wages back to the standard of ter years ago, driving much of the labor to other fields of employment.

Certain of the Canadian provinces absolutely prohibit the exportation of pulp wood. etc. Such is the case at present with Ontario and British Columbia, the greatest two sources of supply of lumber for this country. Quebec gives a rebate on crown due when material cut from crown lands is manufactured in the provinces. This is equivalent to 25 cents per cord export duty on pulp, but export is not prohibited. New Brunswick and Nova Scotia also permit exportation, and until the provinces of Ontario and British Columbia recede from their present position no consideration should be given Canadian interests, as the advantages to them accruing from a market for the disposing of their raw material would be greater than the advantage of free sulphice pulp to our consumers.



